

October 24, 2011

Ann Boynton
Deputy Executive Officer, Benefit Programs Policy and Planning
CalPERS
Lincoln Plaza North
400 Q Street
Sacramento, CA 95811

Subject: Actuarial Valuation of the CalPERS Long-Term Care Program
as of June 30, 2011

Dear Ms. Boynton:

We have attached a report summarizing the results of our actuarial valuation of the CalPERS Long-Term Care Program as of June 30, 2011. Please note that this report is not meant to serve as complete actuarial documentation. Much additional relevant data/information is available for distribution and could be provided upon request.

This report is organized as follows:

- The first section presents an executive summary of the valuation results and recommendations.
- The following sections present:
 - Scope and background information.
 - The approach used for this valuation.
 - A discussion of revised assumptions.
 - Valuation results – base case and sensitivity testing.
 - Observations and Recommendations.
 - Caveats and/or limitations applicable to this valuation.
 - Conclusions

Additional details are provided in various attachments as described in the report.

Please feel free to contact us directly to discuss anything presented in this report at the contact information summarized below.

We would like to acknowledge the efforts of our staff members, who assisted us with nearly every aspect of this project:

Constance D. Rogers, FSA, MAAA
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Sincerely,

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**2011 Actuarial Valuation of the
California Public Employees' Retirement System
Long-Term Care Program
As of 6/30/2011**

Prepared by:

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October 24, 2011

Table of Contents

I.	Executive Summary	2
II.	Scope and Background Information	4
III.	Valuation Approach	5
IV.	Liability Assumptions	8
V.	Valuation Results	9
VI.	Observations and Recommendation	18
VII.	Caveats and Limitations	19
VIII.	Qualifications	21

Attachments

A:	Base Case and Sensitivity Test Results
B:	Investment Scenarios
C:	Long-Term Care Model(s) and Assumptions
D:	Comparison of Actual-to-Expected Results
E:	Summary of Model Cells
F:	Distributions of Inforce
G:	Base Case Results (repeated)
H:	Projection Results Assuming Industry Manual Morbidity Assumptions
I:	Projection Results Assuming Fully Credible Program Experience
J:	Analysis of Historical Claims Experience
K:	Historical and Projected Cash Flows
L:	Glossary of Terms

I. Executive Summary

United Health Actuarial Services, Inc. (UHAS) was retained by the California Public Employees' Retirement System (CalPERS) Long-Term Care (LTC) Program to perform an annual actuarial valuation of CalPERS LTC operations as of June 30, 2011 ("2011 Annual Valuation"), along with supporting analyses. Specifically, our assignment was to develop a projection of future cash flows and to evaluate the adequacy of current assets and premium levels based on those cash flows. UHAS has completed annual valuations for the CalPERS LTC Program since 2005.

As the starting point for the development of the 2011 Annual Valuation, we utilized our work on the 2010 Annual Valuation along with previous valuations.

Briefly, the 2011 valuation process could be summarized as follows:

- We compared assumptions from the 2010 Annual Valuation to actual experience through 6/30/11 and made appropriate modifications.
- We developed morbidity assumptions that directly incorporate actual experience by calendar year of issue and underwriting type.
- We incorporated, where appropriate, the assumptions utilized to develop the rate increase recommendations approved by the CalPERS Board in December of 2009.
- We utilized projected investment returns from CalPERS investment staff to set the discount rate that reflected the "Portfolio 4" investment mix, which was adopted in May 2011 as an interim portfolio investment strategy.
- We input final assumptions into our model and ran the model for all scenarios to be tested.

Given all of the above, we developed projected values using our proprietary projection model, and we used those projected values along with current Program financial information to determine the projected financial standing of the Program.

While we have always reviewed all of the valuation assumptions annually and developed projection results under a number of different scenarios, we have also highlighted the potential volatility of the Program under different ongoing rate increase and market downturn scenarios in this year's valuation. These will be discussed in more detail later in this report.

Please note that a Glossary of Terms that might be helpful in your review of this report is included in Attachment L.

Projection Results

Given the range of sensitivity test results presented in this report, projection results are highly dependent on the underlying assumptions.

The results of projection scenario A(1) (i.e., the “base case” scenario) is summarized in Table 1 below. Attachment A and Attachment B provide projection results for various projection scenarios.

Table 1 Base Case Scenario Summary of Projected Values Inforce Business as of 6/30/2011 Present Values Using Projected Portfolio 4 Returns as the Recommended Discount Rates	
Component	(\$ in Millions)
1. Present Value of Future Benefits	\$5,315
2. Present Value of Future Expenses	\$290
3. Present Value of Future Premiums (PVFP)	\$3,029
4. Valuation Liabilities (= 3 – 1 – 2)	-\$2,576
5. Valuation Assets	\$3,277
6. Valuation Margin/(Deficit) (= 5 + 4)	\$701
7. Margin/(Deficit) as a % of PVFP (= 6 / 3)	23.14%

Please note we are recommending a revision to the approved discount rate from 7.79% to “Portfolio 4” rates consistent with recent modifications made to the asset allocation for the LTC Program. The approach utilized to develop the proposed discount rates is consistent with CalPERS Actuarial Office’s methodology for determining discount rates from expected returns.

The results shown above reflect our best estimate of the current financial status of the CalPERS LTC Program and, therefore, we recommend that these results be used for financial reporting purposes. Please see the report and attachments for a detailed discussion and summary of projection results.

Recommendation

Given the results of this valuation and the supporting analyses and observations, we recommend that CalPERS adopt this 2011 Annual Valuation report including the new portfolio discount rates and all other underlying assumptions. The proposed discount rates are:

- 6.25% for projection years 1 – 10 (fiscal year starting 7/2011 to fiscal year ending in 6/2021); and,
- 7.60% for projection years 11+ (fiscal year starting 7/2022).

II. Scope and Background Information

United Health Actuarial Services, Inc. (UHAS) was retained by the California Public Employees' Retirement System (CalPERS) Long-Term Care (LTC) Program to perform an annual actuarial valuation of CalPERS LTC operations as of June 30, 2011 ("2011 Annual Valuation"), along with supporting analyses. Specifically, our assignment was to develop a projection of future cash flows and to evaluate the adequacy of current assets and premium levels based on those cash flows. UHAS has completed annual valuations for the CalPERS LTC Program since 2005.

Program History - Highlights

The CalPERS LTC Program ("Program") began accepting members in 1995 and quickly grew to one of the largest LTC blocks in the nation with nearly 200,000 members at its largest. Since its inception, the Program has paid claims to over 13,000 members totaling more than \$862 million through 6/30/11. Future claim payments are funded by members' premiums and the Program's current fund balance, which is nearly \$3.3 billion as of 6/30/11.

Similar to other LTC blocks, the CalPERS LTC Program has experienced the following:

- Worse-than-expected morbidity (i.e., claims), due in part to less stringent underwriting standards in effect during the early years of the Program;
- Higher-than-expected persistency which results in more projected future claims; and,
- Lower-than-expected investment income.

All of these items have negatively impacted the projected funding status of the Program; therefore, similar to the private LTC insurance industry, CalPERS has implemented various corrective actions over time, including increasing the premium rates that members pay. These premium increases were implemented in 2003, 2007, and 2010. The 2010 premium increases were approved by the Board in December 2009, and are summarized below:

- LTC Program premium increases effective on July 1, 2010, for the following:
 - 22% for members with LTC1 and LTC2 policies and inflation protection;
 - 22% for members with LTC1 and LTC2 policies and lifetime coverage but without inflation protection; and,
 - 15% for all other members.
- LTC Program annual premium increases of 5% beginning July 1, 2011 for those members with LTC1 policies with lifetime coverage and inflation protection.

The CalPERS Investment Committee most recently approved the reallocation of the LTC Program's invested assets in May 2011. The impact of this slightly more conservative investment portfolio will be discussed later in this report.

Preview of Report

This report summarizes the approach, assumptions, and results of our actuarial valuation of the CalPERS Long-Term Care Program as of June 30, 2011. Please note that this report is not meant to serve as complete actuarial documentation for this valuation. Additional data/information could be provided upon request.

III. Valuation Approach

As the starting point for the development of the 2011 Annual Valuation, we utilized our work on the 2010 Annual Valuation along with the previous valuations that we have completed for CalPERS since 2005.

Briefly, the 2011 Annual Valuation process could be summarized as follows:

- We compared assumptions from the 2010 Annual Valuation to actual experience through 6/30/11 and made appropriate modifications.
- We developed morbidity assumptions that directly incorporate actual experience by calendar year of issue and underwriting type.
- We incorporated, where appropriate, the assumptions utilized to develop the rate increase recommendations approved by the CalPERS Board in December of 2009 (e.g., assumed conversions).
- We utilized projected investment returns from CalPERS investment staff to set the discount rate that reflected the “Portfolio 4” investment mix, which was adopted in May 2011 as an interim portfolio investment strategy.
- We input final assumptions into our model and ran the model for all scenarios to be tested.

Each of these steps is reiterated and discussed in more detail below.

- *We compared assumptions from the 2010 Annual Valuation to actual experience through 6/30/11 and made appropriate modifications.*

We reviewed all the assumptions used in the 2010 Annual Valuation. A discussion of revised assumptions is included later in this report.

- *We developed morbidity assumptions that directly incorporate actual experience by calendar year of issue and underwriting type.*

For the benefit designs modeled, we performed detailed morbidity experience analyses, and based on the results of those analyses, we were able to make adjustments to the assumed select-and-ultimate claim costs. To determine the appropriate adjustments, we relied upon an updated experience report comparing actual select-and-ultimate Program claim costs to expected select-and-ultimate claim costs. Because of the level of detail included in the study, claims with

incurred dates from 7/1/10 and 6/30/11 were excluded (i.e., those within twelve months of the valuation date). These claims were excluded because over a third of the total number of claims incurred within a given year either are not reported or do not receive a payment as of the end of that year, and an allocation or estimate of these undetermined claims could have distorted the results of our study. For all incurred claims included in this study, we used updated payment data through 6/30/11 and claim reserves calculated as of 6/30/11.

In order to validate these experience-based claim costs, we reworked the actual-to-expected analyses using the newly adjusted experience claim costs as the expected morbidity. In our opinion, the adjusted experience claim costs we developed reasonably reproduce historical experience.

As a final step in developing our morbidity assumptions, we credibility-weighted CalPERS actual experience with industry manual claim costs. This step utilized CalPERS actual experience where credible, manual claims cost where the CalPERS experience was not credible, and combined the two where CalPERS experience was partially credible. The credibility standards we applied were taken from the results of an analysis dated 5/28/03 performed by the Credibility Subgroup of the American Academy of Actuaries Long-Term Care Reserving Work Group.

The development of the claim costs assumption is discussed in greater detail in Attachment C.

- *We incorporated, where appropriate, the assumptions utilized to develop the rate increase recommendations approved by the CalPERS Board in December of 2009.*

In December of 2009, the CalPERS Board approved the premium rate increases summarized in the Scope and Background Information section. In this valuation, we have included the assumptions utilized to develop the rate increase recommendations, as appropriate. Please note that the premium rate increase recommendations were developed utilizing several assumptions in addition to traditional valuation assumptions including assumed shock lapses, morbidity anti-selection, and plan conversions.

Briefly, shock lapses are an insurance phenomenon where individuals allow their policies to lapse/terminate at a higher rate than usual due to a specific event such as a premium rate increase. Individuals who let their policies lapse because of specific events are usually in better health. Policyholders do not normally drop their policies if they anticipate that they will soon have claims. As a result, individuals who retain their policies are often, on average, in worse health than those who lapse them. This policyholder decision process is referred to as anti-selection.

Regarding conversions, with the implementation of the premium rate increases, most members were provided an option to either accept the higher premiums, reduce their benefits to offset the rate increase, or select another plan available in the CalPERS LTC Program. The election to switch plans is referred to as a conversion.

- *We utilized projected investment returns from CalPERS investment staff to set the discount rate that reflected the “Portfolio 4” investment mix, which was adopted in May 2011 as a short-term portfolio investment strategy.*

As part of the CalPERS Asset/Liability workshop held in November 2010, expected investment returns over the next 10 years were derived for each proposed asset allocation based on the input of CalPERS investment staff and various investment consultants. CalPERS actuarial staff also worked closely with CalPERS investment staff to develop an approach that could be used to derive market return assumptions for projection years 11 and beyond. In developing the expected returns for years 11 and beyond, there was a common agreement that expected return for years 11 and beyond should be higher than the expected returns for the next 10 years, but that they should be lower than the historical returns when looking back to the 1920s. Returns for years 11 and beyond were derived by first obtaining the historical geometric returns for each asset classification and then adjusting them to reflect current market conditions.

During the May 2011 Investment Committee meeting, a revised investment portfolio, “Portfolio 4”, was adopted for the LTC Program for the next year. The new investment portfolio is made up of the following investment classes.

TIPS:	15%
US Nominal Bonds:	30%
Global Equity:	44%
Global Public Real Estate:	8%
<u>Commodities:</u>	<u>3%</u>
Total	100%

The proposed discount rates for the LTC Program have been developed from the above and rely on the CalPERS Actuarial Office’s methodology utilized for the Pension Program(s); therefore, the following differences between CalPERS LTC Program and Pension programs are worth noting:

1. The LTC Program has a different proposed asset mix as shown above.
2. The LTC Program uses best-estimate (i.e., 50th percentile) returns for the discount rate and does not include provision for expenses or any margin in this rate. The LTC Program margin is explicitly provided for elsewhere.
3. The LTC Program is able to utilize a select-and-ultimate discount rate structure rather than develop one level discount rate required in the Pension valuations.

The CalPERS LTC Program proposed discount rates are based on the results of CalPERS Asset/Liability Workshop referenced above, and take into account the three differences listed above. The proposed discount rates for the LTC Program for this 2011 Annual Valuation are:

- 6.25% for projection years 1 – 10 (fiscal year starting 7/2011 to fiscal year ending in 6/2021); and,
- 7.60% for projection years 11+ (fiscal year starting 7/2022).
- *We input final assumptions into our model and ran the model for all scenarios to be tested.*

Results of the “base case” scenario to be used for financial reporting purposes along with results from other sensitivity tests are discussed later in this report.

IV. Liability Assumptions

This section presents data/information relating to assumption revisions made to the 2011 valuation as compared to the 2010 valuation. The impacts of these assumption changes are shown later in the section entitled “Reconciliation of Base Case Valuation Results...” Assumptions are documented in more detail in Attachment C.

Fund Balance

Please see Attachment D for a summary of actual-to-projected values for the period 7/2010-6/2011. The actual fund balance as of 6/30/11 compares favorably to the corresponding projected fund balance from the 2010 Annual Valuation. The source of this positive result is the actual (vs. projected at 6.38%) investment income, which was 213% greater than expected. Actual claims and expenses were higher than expected by 1% and 19%, respectively, and premiums were lower than expected by 4% thus, in combination, offsetting a small portion of the better-than-expected investment income. The valuation assumptions have been updated in such a way that they address the differences discussed in this section.

Please note that although the expenses were 19% higher than projected in the 2010 Annual Valuation, the 19% variation equates to \$3.3 million, which is a small variation when considering the relative size of the fund balance and other factors that impact the balance. At least part of the variation in expenses is that the 2010 Annual Valuation expense assumptions did not account for the additional costs to implement the premium rate increases; however, these additional expenses are not expected to continue at this higher level into the future.

Morbidity

The morbidity assumptions are briefly discussed earlier in this document, and in greater detail in Attachment C.

Please note that this valuation is based on assumed morbidity more favorable than actual Program experience. If actual experience continues to emerge as it has to date, valuation results would deteriorate (e.g., a projected margin would decrease) as the credibility attributable to that experience increases. However, as the Program continues to mature, the difference between actual Program experience and assumed morbidity is decreasing, so the resulting potential deterioration of results is lessening as compared to previous valuations.

Total Terminations - Voluntary Lapsation and Mortality

We utilized the mortality assumptions developed in the 2009 valuation, which were based on a detailed analysis of actual Program experience utilizing the Social Security Database, and we revised the voluntary lapse assumptions for this valuation given the additional year of total termination experience.

Please note that actual voluntary lapse rates for the CalPERS LTC Program continue to be much lower than those experienced in the LTC insurance industry as a whole.

Expenses

Assumed expenses were adjusted to reflect both actual and anticipated changes in expense patterns. The aggregate increase made only a small impact to the valuation results.

Other Assumptions

All other assumptions are substantially similar to those utilized in the 2010 Annual Valuation.

V. Valuation Results

Given everything presented above, we developed projected values using a proprietary projection model. The projection results were fit to historical experience such that projected lives inforce, premiums collected and claims incurred were all consistent with recent historical values. With respect to incurred claims, we adjusted values to reflect past over-estimates of open claim reserves in early claim durations and in incurred-but-not-reported claims. We also developed and applied additional adjustments to fit historical claims experience to projected claims.

This section summarizes the results of our actuarial valuation of the CalPERS Program for 2011. Please note that this report is not meant to serve as complete actuarial documentation for this valuation. Additional data/information could be provided upon request.

Projection Results

The “base case” projection results are summarized in Attachment A(1), where all assumptions are set at “best estimates”. Included in these best-estimate assumptions are

the Portfolio 4-based discount rates described in Section III. Also included in these best-estimate assumptions are the ongoing premium increases for all future years for certain classes of policies, and all corresponding additional lapses, anti-selection, and conversions assumed in conjunction with those ongoing increases. A variety of sensitivity-test results are included below, including those that illustrate the impact of stopping the ongoing rate increase at various points in time.

We did not attempt to include new business or increases in future benefits from BIOs (Benefit Increase Options) in this valuation – only members and benefits in force as of 6/30/11 were included.

“Base Case” Results

With all of the updated assumptions and in force data, the projected margin for the “base case” scenario is 23.14%. As a reminder, the 2010 Annual Valuation reported the “base case” deficit as (2.98%); however, the 2010 deficit calculation was developed using a level 6.38% discount rate. This discount rate was based on the best information available when developing that valuation, but CalPERS was still in the process of developing their long-term investment return outlook at that time. Given all of the above, we will revert back to the Board-approved discount rate of 7.79% as the starting point for the 2011 Annual Valuation. The 2010 Annual Valuation projected margin was 24.25% using a level 7.79% discount rate.

Financial Status Measurements

The Program results summarized throughout this section either refer to “deficits” or “margins”. A deficit is an estimate of what level of one-time rate increase would be needed to bring the Program back to a zero margin. If the current fund balance and present value of earnings are adequate, a positive number or a “margin” would result. In formula terms:

$$\text{Margin / (Deficit): } \frac{\{\text{Current Fund Balance} + \text{Present Value of Earnings}\}}{\text{Present Value of Premiums}}$$

Where:

$$\text{Present Value of Earnings: } \begin{aligned} &\text{Present Value of Net Premiums} \\ &- \text{Present Value of Benefits and Expenses} \end{aligned}$$

New for this valuation, we have included a second method of expressing the current financial status of the Program called a “Funded Ratio”, which is consistent with the CalPERS pension and health plan financial status measurements. In general, the funded ratio is the Program assets divided by the accrued liability, or reserves. For the LTC Program, the accrued liability is equal to the present value of future benefits and expenses less the present value of member premiums. This definition is consistent with a statutory gross premium valuation reserve for LTC insurance. In this context, a breakeven position is a funded ratio of 100%. The LTC Program’s funded ratio uses the following formula:

LTC Program Funded Ratio:

$$\frac{\text{Fund Balance}}{\{\text{Present Value of Benefits and Expenses} - \text{Present Value of Premiums}\}}$$

These two methods of expressing the status of the LTC Program are consistent in that both will always produce a margin when the funded ratio is greater than 100% and will always produce a deficit when the funded ratio is lower than 100%. They are not consistent in that a 10% margin for example does not produce a 110% funded ratio.

Considerations

Three items to note when reviewing these (and future) valuation projection results:

- Please remember that the results are very sensitive to the assumptions used.
- Along the same line, please remember that assumption changes produce leveraged results. In other words, if an assumption is revised (for example) such that the initial pricing for a product should have been 10% greater, that would increase the projected deficit as of 6/30/11 by approximately 20%.
- All of the results presented in this report assume that the target is a 0% deficit (i.e., break-even); however, a target margin of 10% after 10 years was associated with the rate increase analyses completed in 2009. In order to reflect this, the projected margin/(deficit) results should be compared to the appropriate target margin to ensure the appropriate interpretation of valuation results.

Sensitivity/Scenario Test Results

The Program's projected financial standing is highly sensitive to the underlying assumptions, so we developed a number of sensitivity tests for review and consideration. The following outlines the sensitivity test scenarios associated with the projection results summarized in Attachments A(2) through A(11). Please note that scenarios A(2) and A(6) include the discount rate of 7.79% utilized in the "base case" scenarios for the 2005 - 2009 Annual Valuations. Also note that Attachments A(7) and A(10) utilize a representative LTC industry portfolio discount rate of 5.50%.

- | | |
|--------------------|---|
| Attachment A(2) - | Discount rate changed to 7.79%. |
| Attachment A(3) - | LTC base policy claims reduced by 10%. |
| Attachment A(4) - | Model expenses reduced by 20%. |
| Attachment A(5) - | Model lapses increased by .25%. |
| Attachment A(6) - | Discount rate changed to 7.79%, LTC base policy claims reduced by 10%, model expenses reduced by 20%, and model lapses increased by .25%. |
| Attachment A(7) - | Discount rate changed to a representative industry rate of 5.50%. |
| Attachment A(8) - | LTC base policy claims increased by 10%. |
| Attachment A(9) - | Model expenses increased by 20%. |
| Attachment A(10) - | Model lapses decreased by .25%. |

Attachment A(11) - Discount rate changed to 5.50%, LTC base policy claims increased by 10%, model expenses increased by 20%, and model lapses decreased by .25%.

In addition to the above scenarios, we included two more sensitivity tests that focus on morbidity and mortality improvement. As documented in Attachment C, morbidity and mortality improvements have been assumed to occur for the first 20 years after the valuation date. These two additional sensitivity tests were added to address comments received during CalPERS external auditors' review of last year's valuation report.

Attachment A(12) – Morbidity and mortality improvement assumed to end in 19 years instead of 20 years.

Attachment A(13) - All morbidity and mortality improvements removed from projection.

A brief summary of projection results using the above sensitivity tests is included below:

Table 2 2011 Annual Valuation Results and Sensitivities						
Scenario	Margin/ (Deficit)	Funded Ratio	LTC Claim Adj.	Model Expense Adj.	Model Lapse Adj. (all years)	Discount Rate
A(1)	23.14%	127%	0%	0%	None	6.25% 1 – 10 7.60% 11+
A(2)	40.34%	152%	0%	0%	None	Level 7.79%
A(3)	40.49%	160%	-10%	0%	None	6.25% 1 – 10 7.60% 11+
A(4)	24.80%	130%	0%	-20%	None	6.25% 1 – 10 7.60% 11+
A(5)	27.11%	133%	0%	0%	+.25%	6.25% 1 – 10 7.60% 11+
A(6)	62.36%	208%	-10%	-20%	+.25%	Level 7.79%
A(7)	(10.25%)	91%	0%	0%	None	Level 5.50%
A(8)	5.78%	106%	+10%	0%	None	6.25% 1 – 10 7.60% 11+
A(9)	21.47%	125%	0%	+20%	None	6.25% 1 – 10 7.60% 11+
A(10)	19.10%	122%	0%	0%	-.25%	6.25% 1 – 10 7.60% 11+
A(11)	(37.04%)	73%	+10%	+20%	-.25%	Level 5.50%
A(12)	22.82%	127%	19 years of claims improvement	0%	19 years of mortality improvement	6.25% 1 – 10 7.60% 11+
A(13)	7.75%	108%	No claims improvement	0%	No mortality improvement	6.25% 1 – 10 7.60% 11+

In addition to the sensitivity testing summarized above, we tested more robust investment scenarios on the "base case" scenario using the following interest rate scenarios:

- Scenario #1: No deviation.
- Scenario #2: Uniformly adding to the "base case" investment scenario one-half percent per year for ten years and then continuing at a level five percent higher than the "base case" investment scenario for all future projected years.
- Scenario #3: Uniformly adding to the "base case" investment scenario one percent per year for five years, and then uniformly subtracting one percent per year for five years to the original "base case" investment scenario , and then continuing the "base case" investment scenario beyond ten years.
- Scenario #4: Adding an immediate three percent to the "base case" investment scenario and continuing this additional three percent for all future projection years.
- Scenario #5: Uniformly subtracting from the "base case" investment scenario one-half percent per year for ten years and then continuing at a level five percent lower than the "base case" investment scenario for all future projection years.
- Scenario #6: Uniformly subtracting from the "base case" investment scenario one percent per year for five years, and then uniformly adding one percent per year for five years to the original "base case" investment scenario, and then continuing the "base case" investment scenario beyond ten years.
- Scenario #7: Subtracting an immediate three percent from the "base case" investment scenario and continuing this three percent reduction for all future projection years.

The numeric descriptions of the above scenarios are shown in Table 3 below.

Table 3											
Investment Sensitivities											
	Projection Years										
	1	2	3	4	5	6	7	8	9	10	11+
Scenario #1	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	6.25%	7.60%
Scenario #2	6.25%	6.75%	7.25%	7.75%	8.25%	8.75%	9.25%	9.75%	10.25%	10.75%	12.60%
Scenario #3	6.25%	7.25%	8.25%	9.25%	10.25%	11.25%	10.25%	9.25%	8.25%	7.25%	7.60%
Scenario #4	9.25%	9.25%	9.25%	9.25%	9.25%	9.25%	9.25%	9.25%	9.25%	9.25%	10.60%
Scenario #5	6.25%	5.75%	5.25%	4.75%	4.25%	3.75%	3.25%	2.75%	2.25%	1.75%	2.60%
Scenario #6	6.25%	5.25%	4.25%	3.25%	2.25%	1.25%	2.25%	3.25%	4.25%	5.25%	7.60%
Scenario #7	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	3.25%	4.60%

Summaries of these additional investment sensitivity test results are included as Attachments B(1)-B(7). A brief summary of those results is included in Table 4 below:

Table 4 Investment Sensitivities						
Scenario	Margin/ (Deficit)	Funded Ratio	LTC Claim Adj.	Model Expense Adj.	Model Lapse Adj. (all years)	Discount Rate
B(1)	23.14%	127%	0%	0%	None	Scenario #1
B(2)	79.13%	270%	0%	0%	None	Scenario #2
B(3)	47.72%	164%	0%	0%	None	Scenario #3
B(4)	76.98%	241%	0%	0%	None	Scenario #4
B(5)	(82.55%)	51%	0%	0%	None	Scenario #5
B(6)	(1.61%)	98%	0%	0%	None	Scenario #6
B(7)	(47.87%)	64%	0%	0%	None	Scenario #7

As noted earlier, the previous results include ongoing rate increases that continue for all future years; however, sensitivity test results assuming that the ongoing rate increases end at 2014 as well as when the Program is projected to maintain a 10% margin are summarized in Table 5 below.

Table 5 On-going Premium Increase Scenarios		
Ongoing Premium Rate Increases	Margin / (Deficit)	Funded Ratio
Continue (Base Case)	23.14%	127%
Last Increase 7/2014	7.51%	107%
Last Increase 7/2016	11.35%	111%

Volatility of Results

The volatility of projection results has been demonstrated using various sensitivity tests and, in this section, we demonstrate the volatility of results if another market downturn would occur next year, five years in the future or ten years in the future. A market downturn example was developed for the May 2011 Investment Committee meeting where assumed market downturns were determined for various portfolios given their asset allocations and historical market downturn data.

For the Portfolio 4 asset mix, the average downturn over the past three market downturns was a negative 18% return. Assuming the next market downturn consistent with this average negative return occurs at various points in the future, the following rate increases would be needed to bring the Program back to the position it was before the assumed downturn. For this scenario testing, we used the “base case” assumptions; however, we stopped the assumed ongoing rate increase at 2016, which is consistent with the Table 5 results above where the margin of 10% was maintained under this scenario. The purpose of using this scenario with the ongoing rate increases stopped (instead of the “base case” scenario) is to utilize a scenario that has a margin close to the target margin identified in the previous rate increase analysis.

Table 6	
Market Downturn Scenario (18% Loss)	
Projection Year	Premium Rate Increase 1-year after Downturn to Offset Impact
1 Year	34%
5 Years	64%
10 Years	164%

The purpose of this testing is to illustrate the greater dependency of the Program on investment returns over time and to show that future rate increases would need be larger for the same negative return in the future.

Reconciliation of Base Case Valuation Results - 2010 to 2011

The 2010 Annual Valuation reported the “base case” deficit as (2.98%); however, the 2010 deficit calculation was developed using a level 6.38% discount rate. This discount rate was based on the best information available when developing that valuation, but CalPERS was still in the process of developing their long-term investment return outlook at that time. Given all the above, we will revert back to the Board-approved discount rate of 7.79% as the starting point for the 2011 Annual Valuation.

The reconciliation of these margins (in millions) can be broken down as follows:

Table 7		
Reconciliation of Base Case Valuation Results in Millions		
Projection Model Revisions	Starting Discount Rate 6.38%	Starting Discount Rate 7.79%
2010 aggregate present-value margin/(deficit) as of 6/30/10:	(\$93.3)	\$687.6
Adjusted to 6/30/11 (i.e., lost time):		+\$54.1
Updated Inforce:		-\$168.5
Favorable FY 2010-2011 experience (esp. investments):		+\$349.4
Revised assumed lapsation and mortality:		+\$24.6
Revised assumed expenses:		-\$2.7
Revised morbidity and mortality claims-related assumptions:		+\$180.0
Revised discount rate from 7.79% to 6.25% for projection years 1-10 and 7.60% for years 11+.		-\$423.7
2011 aggregate present-value margin/(deficit) as of 6/30/11:		\$700.7

The reconciliation of these margins (as a percent of present-value of premiums) can be broken down as follows:

Table 8		
Reconciliation of Base Case Valuation Results as a Present-Value of Premiums		
Projection Model Revisions	Starting Discount Rate 6.38%	Starting Discount Rate 7.79%
2010 aggregate present-value margin/(deficit) as of 6/30/10:	(2.98%)	24.25%
Adjusted to 6/30/11 (i.e., lost time):		+3.1%
Updated Inforce:		-6.7%
Favorable FY 2010-2011 experience (esp. investments):		+12.6%
Revised assumed lapsation and mortality:		+1.0%
Revised assumed expenses:		-0.1%
Revised morbidity and mortality claims-related assumptions:		+6.3%
Revised discount rate from 7.79% to 6.25% for projection years 1-10 and 7.60% for years 11+.		-17.3%
2011 aggregate present-value margin/(deficit) as of 6/30/11:		23.14%

The major driving factor that reduced the projected margin is the decline in discount rate from the 2010 discount rate of 7.79% to this year's discount rate of 6.25% for Projection years 1-10 and 7.60% for years 11+. Offsetting the discount rate change that reduced the projected margin is the larger-than-expected fund balance resulting from better investment returns experienced since the 2010 Annual Valuation and the improvement in projected future benefits.

A discussion of assumption revisions is included in an earlier section of this report and in Attachment C.

Additional Perspectives on Projection Results

The purpose of this section is to provide additional perspectives and data/information relating to the 2011 Annual Valuation results. The following items, in no particular order, are presented with this purpose in mind:

- Attachment G is identical to Attachments A(1) and B(1) – the “base case” scenario with the recommended Portfolio 4 discount rate and assuming all ongoing premium rate increases and corresponding assumptions. In this scenario, as indicated earlier in this report regarding morbidity assumption development, actual Program claim costs were credibility-weighted with corresponding industry manual claim costs to develop assumed claim costs. The credibility standards we applied assume that “full credibility” is defined such that there is a 90% probability that estimates fall within 10% of expected claim costs. The purpose of setting the credibility standards as defined here was to attribute as much credibility to actual Program experience as we could reasonably justify given that we thought actual experience might differ significantly from industry manual experience.

We reviewed alternative projection scenarios using differing credibility standards:

- Attachment H summarizes projection results assuming that no credibility can be attributed to actual Program experience.

Essentially, this attachment summarizes results assuming that this Program experiences what would be considered industry-average experience. As you can see, the projected margin in this scenario is 28.77% with a funded ratio of 136%.

Given that assumption changes produce leveraged results as described earlier, the difference between the “base case” projected deficit and the projected deficit shown immediately above indicate that, on average, assumed morbidity is approximately 3% greater than manual (i.e., LTC industry) morbidity.

- Attachment I summarizes projection results assuming full credibility can be attributed to actual Program experience.

As you would expect, the projection results for this scenario are worse than those summarized in Attachments H. The projected margin in this scenario is 19.70%

with a funded ratio of 122%. For this scenario, we have determined that CalPERS morbidity experience is 5% higher than manual/industry experience and 2% greater than the morbidity assumed in the “base case”.

- Attachment J summarizes a variety of inception-to-date statistics from the Program. All claims-related statistics are increasing year after year, and we would expect this trend to continue given the increasing age of the inforce block of business. As a result, if you look at the “base case” projection (i.e., Attachments A(1), B(1), or G), projected cash flows excluding investment income turn negative in 2016 and continue that way for the remainder of the projection. If this is correct, then clearly the weight of the funding burden in the future will continue to shift toward investment income (i.e., the size of the fund balance and the return(s) achieved on that balance).

We would be happy to elaborate further on any data/information presented in this section or to discuss or present any additional data/information that might help everyone involved to better understand and interpret the valuation results.

VI. Observations and Recommendation

We have completed an annual valuation for the CalPERS LTC Program since 2005, and this is therefore the seventh annual valuation we have completed. Combining this historical knowledge of the Program and our industry knowledge, we have the following observations regarding the 2011 Annual Valuation:

- The results of this annual valuation are consistent with recent quarterly valuations that utilized the recommended Portfolio 4 discount rates with the exception that the ongoing rate increases could stop earlier than previously reported and still maintain a 10% margin.
- The Program’s financial status continues to improve due to better-than-projected investment returns over the last 2 years.
- The liability assumptions, including morbidity and persistency, have become more stable, and the smaller fluctuations in assumptions translate to less volatile results.
- As noted previously, the range between manual claim costs and actual experience claim costs has narrowed as the block continues to mature, so the Program will see less deterioration from increased credibility in experience.
- The recent volatility in the asset markets continues to cause the larger fluctuations in results, and this will have a greater impact in the future as the primary source of Program revenue gradually shifts from premiums to investment returns.
- Variability in future results is expected, and the impact to the Program can be lessened with risk adjusted margins, which increase or decrease the target margin based on the underlying risk in the Program. This approach is consistent with the private sector statutory requirements.
- The continued quarterly monitoring and reporting of actual-versus-projected experience helps identify emerging issues.

- Conversion and downgrade activity continues to help the status of the program, and continued, improved efforts in that regard would lead to even better results.
- The following comments are related to the two charts in Attachment K where we summarize historical and projected cash flows. We show two scenarios - the “base case” scenario and the scenario that stops the ongoing rate increase at 2016 summarized in Table 5 - to demonstrate the difference in investment income. Please note that the premium and investment income line (blue/top line) in both charts are stopped earlier than the other cash flows because a Program that has a margin starts to have significant investment returns in these later projection years. These large investment incomes distort the chart, and the Program would likely be managed in such a way that large margins would be reduced in the later durations.
 - The historic revenues (premiums and investment income) have wide variations in results due to investment income fluctuations (i.e., the difference between the blue/top line and the green/bottom line).
 - Expenses in the Program have been and are expected to be a small relative to the overall cash flows. Expenses are shown in the chart as purple or the small box on the top of each bar.
 - Although a sizable amount of claims have been paid to members thus far, this represents only a small fraction to the total claims that will be paid in total. Paid claims are represented in the chart as the large bars and those occurring prior to 2011 are historical paid claims that total over \$862 million.

Given the results of this valuation and the supporting analyses and observations, we recommend that CalPERS adopt this 2011 Annual Valuation report including the new portfolio discount rates and all other underlying assumptions.

VII. Caveats and Limitations

Please note the following caveats and limitations with respect this valuation and this report:

- UHAS has performed the work assigned and prepared this report assuming it will be utilized by persons technically competent in the areas addressed and for the stated purpose. Judgments should be made only after studying this report in its entirety. We are available to explain and/or amplify anything presented in this report, and it is assumed that the user of this report will seek such explanation and/or amplification regarding any matter in question.
- Nothing included in this report is to be used in any filings with any public body such as the Securities and Exchange Commission or State Insurance Departments, without prior written approval from UHAS. Any distribution of this report must be in its entirety.

- We relied on data and information supplied by CalPERS and Univita data services personnel. We have not audited or independently verified the information furnished to us. Although we have no reason to suspect the integrity of the underlying data, to the extent that the data are materially flawed, the results of our analysis may be materially impacted. The principal items/materials relied upon include:
 - Data extracts from Univita's administrative system.
 - Direction from Univita actuarial personnel regarding the appropriate interpretation and processing of the data provided.
 - Information contained in previous valuation reports and associated correspondence and documentation.
 - Financial information for the Program from inception through 6/30/11.
 - Information/analyses/summaries/etc. provided by CalPERS staff and Univita.
- The assumptions underlying the projection results summarized in this document and attachments are based on Program data and experience, industry data and experience, discussions with Program management, and informed judgment. We believe the assumptions used are reasonable in the aggregate based on the data/information we have and based on our experience; however, future experience will invariably be different from the projected experience, and other knowledgeable individuals could have different opinions about the appropriateness of any or all of the assumptions used.
- The validity of these projections depends on how actual future experience compares to the valuation assumptions. Assumptions for future morbidity, persistency, expenses, investment return, and other factors are based upon our evaluation of recent experience and anticipated future trends. Actual experience could be more or less favorable. To the extent that actual experience differs from the assumptions underlying this report, actual results will differ from the projection results presented in this report.
- In preparing this report, we have complied with all relevant Actuarial Standards of Practice and any other relevant documents published by the American Academy of Actuaries.
- As indicated previously, this report is not meant to serve as complete actuarial documentation. Much additional relevant data/information is available for distribution and can be provided upon request.

VIII. Qualifications

We, Karl Volkmar and Clark Heitkamp, are associated with United Health Actuarial Services, Inc. and are members of the American Academy of Actuaries. We are qualified under the Academy's Qualification Standards to render the opinions with regard to the actuarial summaries set forth herein.

As indicated previously, please feel free to contact us with any questions at:

- Clark A. Heitkamp: (605) 213-0321 or via e-mail at cheitkamp@uhasinc.com; or,
- Karl G. Volkmar: (317) 575-7672 or via e-mail at kvolkmar@uhasinc.com.

Attachment A

Attachment A Summary

- Attachment A(1) – Margin 23.14% and Funded Ratio 127%
“Base Case” Scenario
- Attachment A(2) – Margin 40.34% and Funded Ratio 152%
Discount rate level 7.79%, (i.e. former valuation discount rate)
- Attachment A(3) – Margin 40.49% and Funded Ratio 160%
Base policy claims reduced 10%
- Attachment A(4) – Margin 24.80% and Funded Ratio 130%
Modeled expenses reduced 20%
- Attachment A(5) – Margin 27.11% and Funded Ratio 133%
Modeled lapses increased by .25%
- Attachment A(6) – Margin 62.36% and Funded Ratio 208%
Sensitivity tests A(2), A(3), A(4), and A(5) combined
- Attachment A(7) – Deficit (10.25%) and Funded Ratio 91%
Discount rate level 5.50%, (i.e. representative industry rate)
- Attachment A(8) – Margin 5.78% and Funded Ratio 106%
Base policy claims increased 10%
- Attachment A(9) – Margin 21.47% and Funded Ratio 125%
Modeled expenses increased 20%
- Attachment A(10) – Margin 19.10% and Funded Ratio 122%
Modeled lapses decreased by .25%
- Attachment A(11) – Deficit (37.04%) and Funded Ratio 73%
Sensitivity tests A(7), A(8), A(9), and A(10) combined
- Attachment A(12) – Margin 22.82% and Funded Ratio 127%
Claims and mortality improvement reduced from 20 years to instead the next 19 years
- Attachment A(13) – Margin 7.75% and Funded Ratio 108%
Removed claims and mortality improvement

Attachment A(1)

Base Case

California Public Employees Retirement System

Summary of Projected Values

All Plans

LTC Program Funded Ratio:	127.20%					Discount Rate Years 1 - 10:	Annual 6.25%
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	700,742,636	= Standard Program Definition				Discount Rate Years 11+:	7.60%
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	23.14%	= Standard Program Definition					
Fund Balance @ End of Projection:	49,493,046,394	100.00%		100.00%			
Totals - 7/2011 thru 6/2071:	5,545,681,269	19,529,919,673	90,896,489	750,438,987	(14,825,573,880)	61,041,835,453	
As a % of Premiums:	100.00%	352.16%	1.64%	13.53%	-267.34%	1100.71%	
Totals - Present Values:	3,028,780,651	5,256,373,930	58,838,801	289,610,105	(2,576,042,185)	7,013,761,458	
As a % of PV(Premiums):	100.00%	173.55%	1.94%	9.56%	-85.05%	231.57%	

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	86,518,260	3,387,165	8,981,681	64,327,889	102,145,483	3,276,784,822
1-12	2012	147,709	319,059,141	189,064,343	6,895,002	18,148,098	104,951,698	219,154,237	3,443,258,194
1-12	2013	143,043	310,506,451	213,621,901	7,167,348	18,746,908	70,970,294	238,408,258	3,767,364,129
1-12	2014	138,324	301,716,982	235,804,779	7,218,240	19,383,443	39,310,519	256,670,452	4,076,742,681
1-12	2015	133,569	292,812,777	252,377,141	6,975,166	20,045,063	13,415,407	274,366,302	4,372,723,653
1-12	2016	128,772	283,662,504	271,464,517	6,685,429	20,730,126	(15,217,569)	291,470,022	4,660,505,363
1-12	2017	123,912	274,128,945	291,313,450	6,346,259	21,274,336	(44,805,099)	307,796,860	4,936,757,816
1-12	2018	118,985	264,230,361	309,404,757	5,893,779	21,763,059	(72,831,233)	323,339,651	5,199,749,577
1-12	2019	114,031	254,007,602	326,727,442	5,344,120	22,208,604	(100,272,564)	338,139,143	5,450,257,995
1-12	2020	109,076	243,443,552	343,459,398	4,812,904	22,630,437	(127,459,187)	352,116,421	5,688,124,575
1-12	2021	104,128	232,599,901	357,608,875	4,330,873	23,046,183	(152,386,030)	404,448,471	5,912,781,808
1-12	2022	99,172	221,541,618	373,880,074	3,887,360	23,412,613	(179,638,430)	462,466,712	6,164,844,249
1-12	2023	94,202	210,311,139	393,964,804	3,405,930	23,700,092	(210,759,687)	482,785,786	6,447,672,531
1-12	2024	89,249	199,001,068	414,108,559	2,918,933	23,905,755	(241,932,180)	502,265,290	6,719,698,630
1-12	2025	84,345	187,658,130	435,644,456	2,507,685	24,047,771	(274,541,782)	520,822,194	6,980,031,740
1-12	2026	79,502	176,331,779	459,722,190	2,180,288	24,141,270	(309,711,968)	538,211,128	7,226,312,152
1-12	2027	74,710	165,080,604	483,751,478	1,906,328	24,152,780	(344,729,982)	554,228,751	7,454,811,312
1-12	2028	69,968	153,956,756	504,626,657	1,631,506	24,045,434	(376,346,841)	568,915,249	7,664,310,081
1-12	2029	65,294	142,987,659	521,966,548	1,364,822	23,812,655	(404,156,366)	582,462,629	7,856,878,488
1-12	2030	60,718	132,203,311	539,004,799	1,135,750	23,470,506	(431,407,744)	594,973,543	8,035,184,752
1-12	2031	56,254	121,641,574	558,280,229	951,176	23,058,064	(460,647,895)	606,305,326	8,198,750,550
1-12	2032	51,885	111,327,765	577,770,778	815,223	22,660,699	(489,918,935)	616,227,053	8,344,407,981
1-12	2033	47,618	101,314,984	591,395,682	685,794	22,142,029	(512,908,521)	624,901,005	8,470,716,099
1-12	2034	43,471	91,646,420	599,727,318	556,720	21,476,888	(530,114,506)	632,711,914	8,582,708,583
1-12	2035	39,474	82,340,290	606,614,417	435,286	20,682,434	(545,391,847)	639,912,205	8,685,305,991
1-12	2036	35,657	73,479,687	614,058,683	337,397	19,792,076	(560,708,468)	646,498,471	8,779,826,349
1-12	2037	32,030	65,124,492	618,983,471	268,664	18,825,823	(572,953,466)	652,506,608	8,865,616,351
1-12	2038	28,595	57,322,422	615,518,913	214,154	17,781,528	(576,192,173)	658,344,433	8,945,169,493
1-12	2039	25,365	50,086,087	603,959,865	165,968	16,651,118	(570,690,864)	664,731,524	9,027,321,753
1-12	2040	22,364	43,432,755	589,474,789	123,600	15,462,962	(561,628,596)	672,192,687	9,121,362,413
1-12	2041	19,607	37,389,850	574,966,945	89,744	14,265,872	(551,932,712)	680,940,666	9,231,926,503
1-12	2042	17,091	31,962,611	557,053,936	65,926	13,093,630	(538,250,881)	691,207,641	9,360,934,457
1-12	2043	14,806	27,134,548	531,609,781	50,599	11,943,747	(516,469,579)	697,582,502	9,513,891,218
1-12	2044	12,745	22,874,351	500,375,134	38,684	10,805,046	(488,344,513)	703,582,502	9,701,004,140
1-12	2045	10,905	19,145,498	468,334,699	29,746	9,693,356	(458,912,303)	718,819,416	9,931,479,044
1-12	2046	9,279	15,914,975	438,114,684	22,303	8,636,619	(430,858,631)	737,434,194	10,210,000,935
1-12	2047	7,851	13,138,654	408,476,443	16,273	7,654,212	(403,008,274)	759,657,017	10,538,799,321
1-12	2048	6,605	10,774,947	376,289,127	11,797	6,753,998	(372,279,974)	785,679,064	10,921,470,111
1-12	2049	5,521	8,777,852	342,413,795	8,319	5,923,852	(339,568,113)	815,886,389	11,365,076,526
1-12	2050	4,584	7,098,066	309,513,714	5,547	5,157,676	(307,578,872)	850,817,968	11,876,326,380
1-12	2051	3,782	5,695,635	279,384,459	3,549	4,452,864	(278,145,237)	890,879,863	12,459,627,372
1-12	2052	3,100	4,533,153	252,715,908	2,359	3,814,271	(251,999,384)	936,331,028	13,117,813,163
1-12	2053	2,524	3,577,784	226,780,559	1,467	3,249,204	(226,453,446)	987,350,815	13,853,164,594
1-12	2054	2,042	2,800,123	200,575,200	833	2,749,026	(200,524,936)	1,044,189,909	14,670,901,057
1-12	2055	1,639	2,171,711	175,529,878	385	2,308,856	(175,667,409)	1,107,308,721	15,577,684,841
1-12	2056	1,306	1,667,816	152,646,166	89	1,925,041	(152,903,480)	1,177,166,469	16,579,183,902
1-12	2057	1,033	1,267,848	132,205,250	-	1,592,690	(132,530,092)	1,254,147,902	17,680,428,324
1-12	2058	811	953,971	113,791,169	-	1,307,841	(114,145,038)	1,338,621,016	18,886,519,248
1-12	2059	633	710,557	96,592,605	-	1,065,999	(96,948,047)	1,430,983,826	20,203,358,035
1-12	2060	491	528,268	81,007,025	-	861,999	(81,340,757)	1,531,714,628	21,638,124,616
1-12	2061	378	393,029	67,534,843	-	692,124	(67,833,938)	1,641,354,517	23,198,138,376
1-12	2062	289	290,229	56,060,128	-	552,562	(56,322,462)	1,760,435,473	24,890,739,910
1-12	2063	220	212,735	46,332,471	-	438,570	(46,558,306)	1,889,516,725	26,723,934,173
1-12	2064	166	154,715	38,160,569	-	345,995	(38,351,849)	2,029,216,000	28,706,591,867
1-12	2065	125	111,585	31,339,195	-	271,479	(31,499,089)	2,180,215,031	30,848,455,049
1-12	2066	93	79,863	25,632,598	-	211,790	(25,764,525)	2,343,261,515	33,160,217,475
1-12	2067	69	56,654	20,924,166	-	164,111	(21,031,622)	2,519,176,995	35,653,629,946
1-12	2068	51	39,726	16,942,992	-	126,538	(17,029,804)	2,708,859,780	38,341,458,104
1-12	2069	37	27,430	13,560,292	-	96,768	(13,629,631)	2,913,288,641	41,237,716,941
1-12	2070	27	18,592	10,752,486	-	73,166	(10,807,059)	3,133,535,539	44,357,622,849
1-6	2071	23	6,742	4,484,883	-	29,652	(4,507,793)	3,370,757,766	47,717,573,555
								1,779,980,632	49,493,046,394

Attachment A(2)

Discount Rate at 7.79% (Past Valuation Discount Rate)

California Public Employees Retirement System

Summary of Projected Values

All Plans

								Annual
							Discount Rate Years All Years:	7.79%
LTC Program Funded Ratio:	151.95%							
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	1,120,338,958	= Standard Program Definition						
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	40.34%	= Standard Program Definition						
Fund Balance @ End of Projection:	100,329,538,467	100.00%			100.00%			
Totals - 7/2011 thru 6/2071:	5,545,681,269	19,529,919,673	90,896,489	750,438,987	(14,825,573,880)	111,878,327,526		
As a % of Premiums:	100.00%	352.16%	1.64%	13.53%	-267.34%	2017.40%		
Totals - Present Values:	2,777,521,058	4,620,023,740	54,531,566	259,411,616	(2,156,445,864)	8,807,942,560		
As a % of PV(Premiums):	100.00%	166.34%	1.96%	9.34%	-77.64%	317.12%		

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	86,518,260	3,387,165	8,981,681	64,327,889	126,847,662	3,276,784,822
1-12	2012	147,709	319,059,141	189,064,343	6,895,002	18,148,098	104,951,698	275,068,208	3,467,960,373
1-12	2013	143,043	310,506,451	213,621,901	7,167,348	18,746,908	70,970,294	303,425,264	3,847,980,279
1-12	2014	138,324	301,716,982	235,804,779	7,218,240	19,383,443	39,310,519	331,255,026	4,222,375,837
1-12	2015	133,569	292,812,777	252,377,141	6,975,166	20,045,063	13,415,407	359,123,667	4,592,941,383
1-12	2016	128,772	283,662,504	271,464,517	6,685,429	20,730,126	(15,217,569)	387,046,995	4,965,480,457
1-12	2017	123,912	274,128,945	291,313,450	6,346,259	21,274,336	(44,805,099)	414,844,961	5,337,309,883
1-12	2018	118,985	264,230,361	309,404,757	5,893,779	21,763,059	(72,831,233)	442,559,146	5,707,349,745
1-12	2019	114,031	254,007,602	326,727,442	5,344,120	22,208,604	(100,272,564)	470,294,971	6,077,077,658
1-12	2020	109,076	243,443,552	343,459,398	4,812,904	22,630,437	(127,459,187)	498,013,723	6,447,100,065
1-12	2021	104,128	232,599,901	357,608,875	4,330,873	23,046,183	(152,386,030)	525,884,874	6,817,654,601
1-12	2022	99,172	221,541,618	373,880,074	3,887,360	23,412,613	(179,638,430)	553,979,886	7,191,153,446
1-12	2023	94,202	210,311,139	393,964,804	3,405,930	23,700,092	(210,759,687)	581,936,168	7,565,494,902
1-12	2024	89,249	199,001,068	414,108,559	2,918,933	23,905,755	(241,932,180)	609,626,831	7,936,671,382
1-12	2025	84,345	187,658,130	435,644,456	2,507,685	24,047,771	(274,541,782)	637,011,494	8,304,366,033
1-12	2026	79,502	176,331,779	459,722,190	2,180,288	24,141,270	(309,711,968)	663,886,699	8,666,835,745
1-12	2027	74,710	165,080,604	483,751,478	1,906,328	24,152,780	(344,729,982)	690,095,289	9,021,010,476
1-12	2028	69,968	153,956,756	504,626,657	1,631,506	24,045,434	(376,346,841)	715,733,314	9,366,375,784
1-12	2029	65,294	142,987,659	521,966,548	1,364,822	23,812,655	(404,156,366)	741,056,823	9,705,762,256
1-12	2030	60,718	132,203,311	539,004,799	1,135,750	23,470,506	(431,407,744)	766,235,308	10,042,662,713
1-12	2031	56,254	121,641,574	558,280,229	951,176	23,058,064	(460,647,895)	791,192,009	10,377,490,277
1-12	2032	51,885	111,327,765	577,770,778	815,223	22,660,699	(489,918,935)	815,764,789	10,708,034,391
1-12	2033	47,618	101,314,984	591,395,682	685,794	22,142,029	(512,908,521)	840,199,842	11,033,880,245
1-12	2034	43,471	91,646,420	599,727,318	556,720	21,476,888	(530,114,506)	864,977,998	11,361,171,566
1-12	2035	39,474	82,340,290	606,614,417	435,286	20,682,434	(545,391,847)	890,451,999	11,696,035,058
1-12	2036	35,657	73,479,687	614,058,683	337,397	19,792,076	(560,708,468)	916,720,147	12,041,095,209
1-12	2037	32,030	65,124,492	618,983,471	268,664	18,825,823	(572,953,466)	943,928,897	12,397,106,888
1-12	2038	28,595	57,322,422	615,518,913	214,154	17,781,528	(576,192,173)	972,614,502	12,768,082,319
1-12	2039	25,365	50,086,087	603,959,865	165,968	16,651,118	(570,690,864)	1,003,642,845	13,164,504,648
1-12	2040	22,364	43,432,755	589,474,789	123,600	15,462,962	(561,628,596)	1,037,691,626	13,597,456,629
1-12	2041	19,607	37,389,850	574,966,945	89,744	14,265,872	(551,932,712)	1,075,130,563	14,073,519,659
1-12	2042	17,091	31,962,611	557,053,936	65,926	13,093,630	(538,250,881)	1,116,361,452	14,596,717,511
1-12	2043	14,806	27,134,548	531,609,781	50,599	11,943,747	(516,469,579)	1,162,164,918	15,174,828,082
1-12	2044	12,745	22,874,351	500,375,134	38,684	10,805,046	(488,344,513)	1,213,506,005	15,820,523,421
1-12	2045	10,905	19,145,498	468,334,699	29,746	9,693,356	(458,912,303)	1,271,121,903	16,545,684,913
1-12	2046	9,279	15,914,975	438,114,684	22,303	8,636,619	(430,858,631)	1,335,474,251	17,357,894,513
1-12	2047	7,851	13,138,654	408,476,443	16,273	7,654,212	(403,008,274)	1,407,002,696	18,262,510,133
1-12	2048	6,605	10,774,947	376,289,127	11,797	6,753,998	(372,279,974)	1,486,365,965	19,266,504,555
1-12	2049	5,521	8,777,852	342,413,795	8,319	5,923,852	(339,568,113)	1,574,400,821	20,380,590,545
1-12	2050	4,584	7,098,066	309,513,714	5,547	5,157,676	(307,578,872)	1,671,831,003	21,615,423,253
1-12	2051	3,782	5,695,635	279,384,459	3,549	4,452,864	(278,145,237)	1,779,254,206	22,979,675,384
1-12	2052	3,100	4,533,153	252,715,908	2,359	3,814,271	(251,999,384)	1,897,212,907	24,480,784,353
1-12	2053	2,524	3,577,784	226,780,559	1,467	3,249,204	(226,453,446)	2,026,350,945	26,125,997,875
1-12	2054	2,042	2,800,123	200,575,200	833	2,749,026	(200,524,936)	2,167,557,776	27,925,895,374
1-12	2055	1,639	2,171,711	175,529,878	385	2,308,856	(175,667,409)	2,321,755,087	29,892,928,214
1-12	2056	1,306	1,667,816	152,646,166	89	1,925,041	(152,903,480)	2,489,824,250	32,039,015,893
1-12	2057	1,033	1,267,848	132,205,250	-	1,592,690	(132,530,092)	2,672,668,148	34,375,936,663
1-12	2058	811	953,971	113,791,169	-	1,307,841	(114,145,038)	2,871,262,091	36,916,074,718
1-12	2059	633	710,557	96,592,605	-	1,065,999	(96,948,047)	3,086,708,644	39,673,191,771
1-12	2060	491	528,268	81,007,025	-	861,999	(81,340,757)	3,320,223,386	42,662,952,368
1-12	2061	378	393,029	67,534,843	-	692,124	(67,833,938)	3,573,065,097	45,901,834,997
1-12	2062	289	290,229	56,060,128	-	552,562	(56,322,462)	3,846,577,098	49,407,066,156
1-12	2063	220	212,735	46,332,471	-	438,570	(46,558,306)	4,142,223,747	53,197,320,792
1-12	2064	166	154,715	38,160,569	-	345,995	(38,351,849)	4,461,600,963	57,292,986,233
1-12	2065	125	111,585	31,339,195	-	271,479	(31,499,089)	4,806,443,497	61,716,235,348
1-12	2066	93	79,863	25,632,598	-	211,790	(25,764,525)	5,178,638,675	66,491,179,755
1-12	2067	69	56,654	20,924,166	-	164,111	(21,031,622)	5,580,235,541	71,644,053,905
1-12	2068	51	39,726	16,942,992	-	126,538	(17,029,804)	6,013,455,249	77,203,257,823
1-12	2069	37	27,430	13,560,292	-	96,768	(13,629,631)	6,480,711,259	83,199,683,268
1-12	2070	27	18,592	10,752,486	-	73,166	(10,807,059)	6,984,608,998	89,666,764,897
1-6	2071	23	6,742	4,484,883	-	29,652	(4,507,793)	3,693,479,425	96,640,566,836
									100,329,538,467

Attachment A(3) Morbidity 10% Lower

California Public Employees Retirement System Summary of Projected Values All Plans

							Discount Rate Years 1 - 10:		Annual
							Discount Rate Years 11+:		6.25%
									7.60%
LTC Program Funded Ratio:		159.81%							
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):		1,226,380,029	= Standard Program Definition						
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):		40.49%	= Standard Program Definition						
Fund Balance @ End of Projection:		87,148,849,598	90.00%		100.00%				
Totals - 7/2011 thru 6/2071:		5,545,681,269	17,576,927,706	90,896,489	750,438,987	(12,872,581,913)	96,744,646,690		
As a % of Premiums:		100.00%	316.95%	1.64%	13.53%	-232.12%	1744.50%		
Totals - Present Values:		3,028,780,651	4,730,736,537	58,838,801	289,610,105	(2,050,404,792)	8,728,123,686		
As a % of PV(Premiums):		100.00%	156.19%	1.94%	9.56%	-67.70%	288.17%		
Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	77,866,434	3,387,165	8,981,681	72,979,715	102,276,480	3,276,784,822
1-12	2012	147,709	319,059,141	170,157,909	6,895,002	18,148,098	123,858,132	220,278,881	3,452,041,017
1-12	2013	143,043	310,506,451	192,259,711	7,167,348	18,746,908	92,332,485	240,855,044	3,796,178,030
1-12	2014	138,324	301,716,982	212,224,301	7,218,240	19,383,443	62,890,997	260,681,772	4,129,365,558
1-12	2015	133,569	292,812,777	227,139,427	6,975,166	20,045,063	38,653,122	280,152,202	4,452,938,328
1-12	2016	128,772	283,662,504	244,318,065	6,685,429	20,730,126	11,928,883	299,252,480	4,771,743,651
1-12	2017	123,912	274,128,945	262,182,105	6,346,259	21,274,336	(15,673,754)	317,824,791	5,082,925,014
1-12	2018	118,985	264,230,361	278,464,281	5,893,779	21,763,059	(41,890,757)	335,872,288	5,385,076,051
1-12	2019	114,031	254,007,602	294,054,698	5,344,120	22,208,604	(67,599,820)	353,441,854	5,679,057,581
1-12	2020	109,076	243,443,552	309,113,459	4,812,904	22,630,437	(93,113,248)	370,472,807	5,964,899,615
1-12	2021	104,128	232,599,901	321,847,988	4,330,873	23,046,183	(116,625,142)	428,536,725	6,242,259,174
1-12	2022	99,172	221,541,618	336,492,067	3,887,360	23,412,613	(142,250,422)	493,448,538	6,554,170,757
1-12	2023	94,202	210,311,139	354,568,323	3,405,930	23,700,092	(171,363,207)	519,037,726	6,905,368,873
1-12	2024	89,249	199,001,068	372,697,703	2,918,933	23,905,755	(200,521,324)	544,342,363	7,253,043,392
1-12	2025	84,345	187,658,130	392,080,011	2,507,685	24,047,771	(230,977,336)	569,323,451	7,596,864,431
1-12	2026	79,502	176,331,779	413,749,971	2,180,288	24,141,270	(263,739,749)	593,798,314	7,935,210,546
1-12	2027	74,710	165,080,604	435,376,330	1,906,328	24,152,780	(296,354,834)	617,625,619	8,265,269,111
1-12	2028	69,968	153,956,756	454,163,991	1,631,506	24,045,434	(325,884,176)	640,887,506	8,586,539,896
1-12	2029	65,294	142,987,659	469,769,893	1,364,822	23,812,655	(351,959,711)	663,806,905	8,901,543,226
1-12	2030	60,718	132,203,311	485,104,319	1,135,750	23,470,506	(377,507,264)	686,530,125	9,213,390,420
1-12	2031	56,254	121,641,574	502,452,206	951,176	23,058,064	(404,819,872)	708,986,717	9,522,413,281
1-12	2032	51,885	111,327,765	519,993,700	815,223	22,660,699	(432,141,857)	731,030,762	9,826,580,126
1-12	2033	47,618	101,314,984	532,256,114	685,794	22,142,029	(453,768,953)	752,875,638	10,125,469,030
1-12	2034	43,471	91,646,420	539,754,586	556,720	21,476,888	(470,141,774)	774,941,376	10,424,575,715
1-12	2035	39,474	82,340,290	545,952,975	435,286	20,682,434	(484,730,406)	797,534,720	10,729,375,317
1-12	2036	35,657	73,479,687	552,652,815	337,397	19,792,076	(499,302,600)	820,738,274	11,042,179,631
1-12	2037	32,030	65,124,492	557,085,124	268,664	18,825,823	(511,055,118)	844,676,795	11,363,615,305
1-12	2038	28,595	57,322,422	553,967,022	214,154	17,781,528	(514,640,282)	869,817,132	11,697,236,982
1-12	2039	25,365	50,086,087	543,563,879	165,968	16,651,118	(510,294,877)	896,914,758	12,052,413,832
1-12	2040	22,364	43,432,755	530,527,310	123,600	15,462,962	(502,681,117)	926,558,089	12,439,033,713
1-12	2041	19,607	37,389,850	517,470,250	89,744	14,265,872	(494,436,017)	959,063,355	12,862,910,685
1-12	2042	17,091	31,962,611	501,348,542	65,926	13,093,630	(482,545,487)	994,773,527	13,327,538,023
1-12	2043	14,806	27,134,548	478,448,803	50,599	11,943,747	(463,308,601)	1,034,362,617	13,839,766,063
1-12	2044	12,745	22,874,351	450,337,621	38,684	10,805,046	(438,307,000)	1,078,664,282	14,410,820,079
1-12	2045	10,905	19,145,498	421,501,229	29,746	9,693,356	(412,078,833)	1,128,309,177	15,051,177,362
1-12	2046	9,279	15,914,975	394,303,215	22,303	8,636,619	(387,047,162)	1,183,683,075	15,767,407,706
1-12	2047	7,851	13,138,654	367,628,798	16,273	7,654,212	(362,160,630)	1,245,149,776	16,564,043,619
1-12	2048	6,605	10,774,947	338,660,214	11,797	6,753,998	(334,651,061)	1,313,262,554	17,447,032,765
1-12	2049	5,521	8,777,852	308,172,415	8,319	5,923,852	(305,326,734)	1,388,727,692	18,425,644,258
1-12	2050	4,584	7,098,066	278,562,343	5,547	5,157,676	(276,627,500)	1,472,148,362	19,509,045,216
1-12	2051	3,782	5,695,635	251,446,013	3,549	4,452,864	(250,206,791)	1,564,013,087	20,704,566,078
1-12	2052	3,100	4,533,153	227,444,317	2,359	3,814,271	(226,727,794)	1,664,757,901	22,018,372,374
1-12	2053	2,524	3,577,784	204,102,503	1,467	3,249,204	(203,775,390)	1,774,903,537	23,456,402,482
1-12	2054	2,042	2,800,123	180,517,680	833	2,749,026	(180,467,416)	1,895,181,715	25,027,530,628
1-12	2055	1,639	2,171,711	157,976,890	385	2,308,856	(158,114,421)	2,026,347,038	26,742,244,928
1-12	2056	1,306	1,667,816	137,381,550	89	1,925,041	(137,638,863)	2,169,112,841	28,610,477,545
1-12	2057	1,033	1,267,848	118,984,725	-	1,592,690	(119,309,567)	2,324,205,151	30,641,951,522
1-12	2058	811	953,971	102,412,052	-	1,307,841	(102,765,921)	2,492,406,905	32,846,847,106
1-12	2059	633	710,557	86,933,344	-	1,065,999	(87,288,787)	2,674,605,475	35,236,488,090
1-12	2060	491	528,268	72,906,323	-	861,999	(73,240,054)	2,871,779,417	37,823,804,778
1-12	2061	378	393,029	60,781,359	-	692,124	(61,080,454)	3,084,936,413	40,622,344,141
1-12	2062	289	290,229	50,454,116	-	552,562	(50,716,449)	3,315,148,752	43,646,200,100
1-12	2063	220	212,735	41,699,224	-	438,570	(41,925,059)	3,563,584,579	46,910,632,402
1-12	2064	166	154,715	34,344,512	-	345,995	(34,535,792)	3,831,516,154	50,432,291,923
1-12	2065	125	111,585	28,205,275	-	271,479	(28,365,170)	4,120,325,161	54,229,272,285
1-12	2066	93	79,863	23,069,338	-	211,790	(23,201,265)	4,431,513,597	58,321,232,277
1-12	2067	69	56,654	18,831,749	-	164,111	(18,939,206)	4,766,710,514	62,729,544,609
1-12	2068	51	39,726	15,248,693	-	126,538	(15,335,505)	5,127,679,734	67,477,315,917
1-12	2069	37	27,430	12,204,263	-	96,768	(12,273,601)	5,516,336,061	72,589,660,146
1-12	2070	27	18,592	9,677,237	-	73,166	(9,731,811)	5,934,743,301	78,093,722,606
1-6	2071	23	6,742	4,036,395	-	29,652	(4,059,305)	3,134,174,806	84,018,734,097
									87,148,849,598

Attachment A(4)

Expenses 20% Lower

California Public Employees Retirement System

Summary of Projected Values

All Plans

LTC Program Funded Ratio:	129.74%							Discount Rate Years 1 - 10:	Annual 6.25%
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	751,114,173	= Standard Program Definition						Discount Rate Years 11+:	7.60%
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	24.80%	= Standard Program Definition							
Fund Balance @ End of Projection:	53,101,315,574	100.00%							
Totals - 7/2011 thru 6/2071:	5,545,681,269	19,529,919,673	90,896,489	617,089,161	(14,692,224,054)	64,516,754,807			
As a % of Premiums:	100.00%	352.16%	1.64%	11.13%	-264.93%	1163.37%			
Totals - Present Values:	3,028,780,651	5,256,373,930	58,838,801	239,238,568	(2,525,670,648)	7,190,981,971			
As a % of PV(Premiums):	100.00%	173.55%	1.94%	7.90%	-83.39%	237.42%			

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	86,518,260	3,387,165	7,470,592	65,838,978	102,168,426	3,276,784,822
1-12	2012	147,709	319,059,141	189,064,343	6,895,002	15,094,199	108,005,597	219,343,445	3,444,792,225
1-12	2013	143,043	310,506,451	213,621,901	7,167,348	15,590,271	74,126,932	238,803,199	3,772,141,267
1-12	2014	138,324	301,716,982	235,804,779	7,218,240	16,117,281	42,576,681	257,290,726	4,085,071,398
1-12	2015	133,569	292,812,777	252,377,141	6,975,166	16,664,893	16,795,577	275,232,888	4,384,938,806
1-12	2016	128,772	283,662,504	271,464,517	6,685,429	17,231,809	(11,719,251)	292,605,684	4,676,967,271
1-12	2017	123,912	274,128,945	291,313,450	6,346,259	17,664,424	(41,195,187)	309,225,625	4,957,853,705
1-12	2018	118,985	264,230,361	309,404,757	5,893,779	18,049,552	(69,117,726)	325,086,543	5,225,884,142
1-12	2019	114,031	254,007,602	326,727,442	5,344,120	18,398,887	(96,462,847)	340,230,320	5,481,852,959
1-12	2020	109,076	243,443,552	343,459,398	4,812,904	18,728,109	(123,556,860)	354,579,204	5,725,620,433
1-12	2021	104,128	232,599,901	357,608,875	4,330,873	19,051,397	(148,391,244)	407,626,558	5,956,642,777
1-12	2022	99,172	221,541,618	373,880,074	3,887,360	19,334,148	(175,559,965)	466,496,735	6,215,878,091
1-12	2023	94,202	210,311,139	393,964,804	3,405,930	19,552,498	(206,612,094)	487,434,734	6,506,814,861
1-12	2024	89,249	199,001,068	414,108,559	2,918,933	19,704,091	(237,730,516)	507,584,902	6,787,637,501
1-12	2025	84,345	187,658,130	435,644,456	2,507,685	19,803,585	(270,297,596)	526,867,046	7,057,491,887
1-12	2026	79,502	176,331,779	459,722,190	2,180,288	19,863,231	(305,433,929)	545,039,283	7,314,061,337
1-12	2027	74,710	165,080,604	483,751,478	1,906,328	19,856,270	(340,433,472)	561,901,831	7,553,666,691
1-12	2028	69,968	153,956,756	504,626,657	1,631,506	19,753,115	(372,054,522)	577,498,037	7,775,135,050
1-12	2029	65,294	142,987,659	521,966,548	1,364,822	19,548,452	(399,892,163)	592,023,053	7,980,578,566
1-12	2030	60,718	132,203,311	539,004,799	1,135,750	19,255,253	(427,192,492)	605,582,938	8,172,709,456
1-12	2031	56,254	121,641,574	558,280,229	951,176	18,904,964	(456,494,795)	618,039,098	8,351,099,903
1-12	2032	51,885	111,327,765	577,770,778	815,223	18,565,938	(485,824,174)	629,166,140	8,512,644,205
1-12	2033	47,618	101,314,984	591,395,682	685,794	18,128,962	(508,895,454)	639,131,830	8,655,986,172
1-12	2034	43,471	91,646,420	599,727,318	556,720	17,573,956	(526,211,574)	648,325,370	8,786,222,548
1-12	2035	39,474	82,340,290	606,614,417	435,286	16,914,792	(541,624,206)	657,004,012	8,908,336,344
1-12	2036	35,657	73,479,687	614,058,683	337,397	16,178,498	(557,094,891)	665,169,964	9,023,716,150
1-12	2037	32,030	65,124,492	618,983,471	268,664	15,381,357	(569,509,000)	672,865,554	9,131,791,223
1-12	2038	28,595	57,322,422	615,518,913	214,154	14,521,792	(572,932,437)	680,505,679	9,235,147,776
1-12	2039	25,365	50,086,087	603,959,865	165,968	13,593,454	(567,633,200)	688,817,351	9,342,721,018
1-12	2040	22,364	43,432,755	589,474,789	123,600	12,619,275	(558,784,909)	698,333,489	9,463,905,169
1-12	2041	19,607	37,389,850	574,966,945	89,744	11,638,642	(549,305,482)	709,276,192	9,603,453,749
1-12	2042	17,091	31,962,611	557,053,936	65,926	10,678,846	(535,836,098)	721,888,369	9,763,424,460
1-12	2043	14,806	27,134,548	531,609,781	50,599	9,738,009	(514,263,841)	736,770,690	9,949,476,732
1-12	2044	12,745	22,874,351	500,375,134	38,684	8,807,249	(486,346,716)	754,689,791	10,171,983,581
1-12	2045	10,905	19,145,498	468,334,699	29,746	7,899,325	(457,118,272)	776,174,898	10,440,326,656
1-12	2046	9,279	15,914,975	438,114,684	22,303	7,036,715	(429,258,727)	801,471,043	10,759,383,282
1-12	2047	7,851	13,138,654	408,476,443	16,273	6,234,987	(401,589,048)	830,785,691	11,131,595,598
1-12	2048	6,605	10,774,947	376,289,127	11,797	5,500,429	(371,026,405)	864,522,709	11,560,792,241
1-12	2049	5,521	8,777,852	342,413,795	8,319	4,823,295	(338,467,556)	903,240,136	12,054,288,545
1-12	2050	4,584	7,098,066	309,513,714	5,547	4,198,613	(306,619,808)	947,364,400	12,619,061,125
1-12	2051	3,782	5,695,635	279,384,459	3,549	3,624,238	(277,316,610)	997,176,351	13,259,805,717
1-12	2052	3,100	4,533,153	252,715,908	2,359	3,104,025	(251,289,138)	1,052,878,840	13,979,665,458
1-12	2053	2,524	3,577,784	226,780,559	1,467	2,643,758	(225,848,000)	1,114,748,048	14,781,255,160
1-12	2054	2,042	2,800,123	200,575,200	833	2,236,440	(200,012,350)	1,183,271,750	15,670,155,208
1-12	2055	1,639	2,171,711	175,529,878	385	1,878,072	(175,236,624)	1,258,938,520	16,653,414,609
1-12	2056	1,306	1,667,816	152,646,166	89	1,565,639	(152,544,078)	1,342,164,636	17,737,116,504
1-12	2057	1,033	1,267,848	132,205,250	-	1,295,156	(132,232,557)	1,433,351,967	18,926,737,062
1-12	2058	811	953,971	113,791,169	-	1,063,376	(113,900,574)	1,532,934,904	20,227,856,472
1-12	2059	633	710,557	96,592,605	-	866,629	(96,748,677)	1,641,430,836	21,646,890,803
1-12	2060	491	528,268	81,007,025	-	700,707	(81,179,465)	1,759,422,844	23,191,572,962
1-12	2061	378	393,029	67,534,843	-	562,565	(67,704,378)	1,887,488,025	24,869,816,341
1-12	2062	289	290,229	56,060,128	-	449,080	(56,218,980)	2,026,234,110	26,689,599,988
1-12	2063	220	212,735	46,332,471	-	356,395	(46,476,131)	2,176,330,947	28,659,615,118
1-12	2064	166	154,715	38,160,569	-	281,134	(38,286,989)	2,338,516,288	30,789,469,934
1-12	2065	125	111,585	31,339,195	-	220,560	(31,448,170)	2,513,598,057	33,089,699,234
1-12	2066	93	79,863	25,632,598	-	172,044	(25,724,779)	2,702,462,551	35,571,849,120
1-12	2067	69	56,654	20,924,166	-	133,296	(21,000,808)	2,906,077,711	38,248,586,892
1-12	2068	51	39,726	16,942,992	-	102,763	(17,006,029)	3,125,497,202	41,133,663,795
1-12	2069	37	27,430	13,560,292	-	78,576	(13,611,439)	3,361,873,541	44,242,154,968
1-12	2070	27	18,592	10,752,486	-	59,405	(10,793,299)	3,616,450,666	47,590,417,071
1-6	2071	23	6,742	4,484,883	-	24,146	(4,502,287)	1,909,743,423	51,196,074,438
									53,101,315,574

Attachment A(5) Lapses .25% Higher

California Public Employees Retirement System Summary of Projected Values All Plans

LTC Program Funded Ratio:	132.57%					Discount Rate Years 1 - 10:	Annual 6.25%
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	805,036,741	= Standard Program Definition				Discount Rate Years 11+:	7.60%
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	27.11%	= Standard Program Definition					
Fund Balance @ End of Projection:	56,966,323,288	100.00%		100.00%			
Totals - 7/2011 thru 6/2071:	5,384,253,976	18,545,312,968	89,103,160	718,072,440	(13,968,234,593)	67,657,773,059	
As a % of Premiums:	100.00%	344.44%	1.65%	13.34%	-259.43%	1256.59%	
Totals - Present Values:	2,969,921,663	5,101,800,543	57,961,864	281,907,336	(2,471,748,080)	7,253,965,159	
As a % of PV(Premiums):	100.00%	171.78%	1.95%	9.49%	-83.23%	244.25%	

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,097	163,072,431	86,517,558	3,385,144	8,975,564	64,194,165	102,143,431	3,276,784,822
1-12	2012	147,151	318,164,587	189,021,599	6,877,911	18,106,723	104,158,353	219,122,561	3,443,122,417
1-12	2013	142,144	308,839,407	213,426,257	7,131,568	18,664,422	69,617,160	238,305,426	3,766,403,331
1-12	2014	137,108	299,327,028	235,334,300	7,164,262	19,257,137	37,571,329	256,462,600	4,074,325,917
1-12	2015	132,060	289,749,669	251,509,583	6,905,595	19,872,062	11,462,429	274,028,014	4,368,359,846
1-12	2016	126,997	279,978,178	270,064,867	6,602,089	20,507,460	(17,196,239)	290,985,639	4,653,850,289
1-12	2017	121,895	269,879,094	289,254,438	6,251,385	20,992,186	(46,618,914)	307,161,673	4,927,639,690
1-12	2018	116,754	259,473,382	306,578,316	5,791,071	21,418,936	(74,314,941)	322,559,870	5,188,182,448
1-12	2019	111,611	248,802,716	323,038,829	5,237,754	21,801,015	(101,274,882)	337,231,141	5,436,427,376
1-12	2020	106,492	237,851,263	338,772,260	4,705,188	22,157,758	(127,783,944)	351,108,086	5,672,383,636
1-12	2021	101,405	226,680,847	351,764,018	4,223,224	22,506,574	(151,812,969)	403,268,958	5,895,707,778
1-12	2022	96,334	215,355,834	366,747,652	3,781,155	22,805,470	(177,978,442)	461,163,787	6,147,163,767
1-12	2023	91,276	203,919,001	385,469,622	3,304,504	23,026,046	(207,881,171)	481,554,487	6,430,349,111
1-12	2024	86,258	192,461,729	404,199,853	2,824,821	23,166,111	(237,729,057)	501,207,750	6,704,022,427
1-12	2025	81,313	181,029,585	424,184,574	2,420,642	23,243,802	(268,819,434)	520,058,919	6,967,501,120
1-12	2026	76,450	169,670,006	446,521,012	2,099,236	23,274,179	(302,224,421)	537,889,298	7,218,740,606
1-12	2027	71,662	158,438,832	468,696,766	1,830,785	23,225,464	(335,314,182)	537,889,298	7,454,405,483
1-12	2028	66,943	147,385,389	487,723,722	1,562,862	23,062,917	(364,964,111)	554,523,130	7,673,614,431
1-12	2029	62,313	136,534,862	503,258,234	1,304,049	22,781,107	(390,808,528)	570,021,503	7,878,671,823
1-12	2030	57,800	125,914,477	518,408,253	1,082,387	22,396,247	(415,972,410)	584,591,922	8,072,455,218
1-12	2031	53,415	115,558,156	535,615,862	904,148	21,946,275	(442,908,128)	598,356,582	8,254,839,390
1-12	2032	49,142	105,488,447	552,972,840	772,923	21,512,669	(469,769,986)	611,204,085	8,423,135,346
1-12	2033	44,986	95,754,131	564,600,747	648,543	20,966,321	(490,461,480)	622,937,066	8,576,302,426
1-12	2034	40,964	86,393,199	571,139,340	525,129	20,284,328	(505,555,598)	633,740,391	8,719,581,337
1-12	2035	37,103	77,420,156	576,251,676	409,531	19,483,879	(518,724,929)	644,010,075	8,858,035,815
1-12	2036	33,430	68,910,183	581,836,377	316,611	18,597,270	(531,840,075)	654,014,905	8,993,325,791
1-12	2037	29,953	60,915,989	585,005,880	251,461	17,643,931	(541,985,283)	663,782,645	9,125,268,361
1-12	2038	26,673	53,478,444	580,278,471	199,928	16,622,410	(543,622,365)	673,379,528	9,256,662,606
1-12	2039	23,600	46,605,295	567,976,195	154,547	15,525,727	(537,051,174)	683,222,235	9,396,262,476
1-12	2040	20,755	40,308,437	552,968,752	114,800	14,380,843	(527,155,958)	694,019,257	9,553,230,559
1-12	2041	18,149	34,608,997	537,984,137	83,141	13,233,406	(516,691,686)	706,295,780	9,732,370,381
1-12	2042	15,780	29,507,354	519,896,936	60,918	12,114,719	(502,565,220)	720,285,655	9,935,964,350
1-12	2043	13,635	24,983,848	494,912,960	46,636	11,022,323	(480,998,070)	736,241,684	10,169,640,814
1-12	2044	11,707	21,005,380	464,683,744	35,563	9,945,761	(453,659,688)	754,748,558	10,443,391,302
1-12	2045	9,991	17,534,354	433,840,860	27,277	8,899,456	(425,233,238)	776,543,967	10,766,275,581
1-12	2046	8,479	14,536,729	404,813,040	20,400	7,908,781	(398,205,492)	802,145,283	11,143,187,626
1-12	2047	7,156	11,968,635	376,461,029	14,846	6,991,022	(371,498,262)	831,807,834	11,576,789,968
1-12	2048	6,004	9,788,959	345,921,866	10,735	6,152,813	(342,296,456)	865,753,852	12,071,045,557
1-12	2049	5,007	7,953,002	313,993,522	7,551	5,382,555	(311,430,627)	904,387,651	12,633,136,753
1-12	2050	4,146	6,413,530	283,112,352	5,022	4,674,219	(281,378,063)	948,256,601	13,269,962,727
1-12	2051	3,411	5,132,219	254,905,188	3,205	4,024,994	(253,801,168)	997,789,979	13,986,374,643
1-12	2052	2,789	4,073,414	229,976,415	2,125	3,438,800	(229,343,925)	1,053,287,364	14,785,860,839
1-12	2053	2,265	3,205,928	205,844,177	1,318	2,921,734	(205,561,301)	1,114,981,872	15,671,498,787
1-12	2054	1,827	2,501,976	181,597,792	746	2,465,528	(181,562,091)	1,183,177,975	16,649,115,461
1-12	2055	1,463	1,934,894	158,520,921	344	2,065,355	(158,651,725)	1,258,376,287	17,725,929,657
1-12	2056	1,163	1,481,609	137,505,350	79	1,717,529	(137,741,350)	1,341,083,096	18,908,361,028
1-12	2057	917	1,122,950	118,788,398	-	1,417,300	(119,082,748)	1,431,745,189	20,202,364,866
1-12	2058	719	842,384	101,981,453	-	1,160,785	(102,299,854)	1,530,802,852	21,614,084,970
1-12	2059	559	625,497	86,349,612	-	943,672	(86,667,787)	1,638,732,872	23,150,517,988
1-12	2060	432	463,561	72,235,753	-	761,096	(72,533,288)	1,756,094,037	24,819,944,237
1-12	2061	332	343,789	60,071,676	-	609,518	(60,337,405)	1,883,511,963	26,630,922,912
1-12	2062	254	253,048	49,741,136	-	485,349	(49,973,437)	2,021,616,013	28,592,201,520
1-12	2063	192	184,876	41,008,617	-	384,223	(41,207,964)	2,171,072,706	30,713,300,789
1-12	2064	145	134,008	33,691,979	-	302,335	(33,860,305)	2,332,614,411	33,004,707,235
1-12	2065	109	96,325	27,600,140	-	236,608	(27,740,423)	2,507,045,287	35,477,892,217
1-12	2066	81	68,703	22,517,933	-	184,109	(22,633,339)	2,695,244,002	38,145,395,796
1-12	2067	60	48,565	18,335,510	-	142,294	(18,429,239)	2,898,171,662	41,020,934,119
1-12	2068	44	33,926	14,810,329	-	109,433	(14,885,836)	3,116,875,585	44,119,380,465
1-12	2069	32	23,332	11,824,691	-	83,473	(11,884,832)	3,352,493,875	47,456,988,503
1-12	2070	23	15,744	9,353,490	-	62,951	(9,400,696)	3,606,267,964	51,051,371,636
1-6	2071	20	5,687	3,894,112	-	25,469	(3,913,894)	3,879,537,389	54,921,508,328
								2,048,728,854	56,966,323,288

Attachment A(6)

Combination of A(2), A(3), A(4), and A(5)

California Public Employees Retirement System

Summary of Projected Values

All Plans

							Annual
							7.79%
LTC Program Funded Ratio:	207.79%						
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	1,699,808,330	= Standard Program Definition					
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	62.36%	= Standard Program Definition					
Fund Balance @ End of Projection:	152,701,442,004	90.00%	80.00%				
Totals - 7/2011 thru 6/2071:	5,384,253,976	16,690,781,672	89,103,160	590,756,252	(11,986,387,107)	161,411,044,290	
As a % of Premiums:	100.00%	309.99%	1.65%	10.97%	-222.62%	2997.83%	
Totals - Present Values:	2,725,747,380	4,040,014,967	53,749,130	208,959,774	(1,576,976,492)	10,706,240,825	
As a % of PV(Premiums):	100.00%	148.22%	1.97%	7.67%	-57.85%	392.78%	

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,097	163,072,431	77,865,803	3,385,144	7,465,698	74,355,786	127,036,042	3,276,784,822
1-12	2012	147,151	318,164,587	170,119,440	6,877,911	15,061,100	126,106,137	276,666,722	3,478,176,650
1-12	2013	142,144	308,839,407	192,083,631	7,131,568	15,524,282	94,099,926	306,862,096	3,880,949,509
1-12	2014	137,108	299,327,028	211,800,870	7,164,262	16,016,236	64,345,660	336,841,914	4,281,911,531
1-12	2015	132,060	289,749,669	226,358,625	6,905,595	16,526,492	39,958,957	367,149,857	4,683,099,105
1-12	2016	126,997	279,978,178	243,058,380	6,602,089	17,053,676	13,264,032	397,836,369	5,090,207,919
1-12	2017	121,895	269,879,094	260,328,994	6,251,385	17,437,214	(14,138,499)	428,776,519	5,501,308,320
1-12	2018	116,754	259,473,382	275,920,485	5,791,071	17,771,171	(40,009,344)	460,047,307	5,915,946,340
1-12	2019	111,611	248,802,716	290,734,946	5,237,754	18,068,181	(65,238,164)	491,784,722	6,335,984,304
1-12	2020	106,492	237,851,263	304,895,034	4,705,188	18,343,831	(90,092,790)	523,998,364	6,762,530,861
1-12	2021	101,405	226,680,847	316,587,616	4,223,224	18,612,132	(112,742,125)	556,891,823	7,196,436,435
1-12	2022	96,334	215,355,834	330,072,887	3,781,155	18,839,479	(137,337,686)	590,584,283	7,640,586,133
1-12	2023	91,276	203,919,001	346,922,660	3,304,504	19,003,006	(165,311,170)	624,805,773	8,093,832,730
1-12	2024	86,258	192,461,729	363,779,868	2,824,821	19,100,907	(193,243,868)	659,500,231	8,553,327,333
1-12	2025	81,313	181,029,585	381,766,117	2,420,642	19,147,823	(222,304,997)	694,695,834	9,019,583,697
1-12	2026	76,450	169,670,006	401,868,911	2,099,236	19,155,950	(253,454,091)	730,285,520	9,491,974,533
1-12	2027	71,662	158,438,832	421,827,089	1,830,785	19,099,893	(284,318,935)	766,209,224	9,968,805,962
1-12	2028	66,943	147,385,389	438,951,350	1,562,862	18,951,777	(312,080,599)	802,633,463	10,450,696,252
1-12	2029	62,313	136,534,862	452,932,411	1,304,049	18,707,215	(336,408,812)	839,868,936	10,941,249,116
1-12	2030	57,800	125,914,477	466,567,428	1,082,387	18,379,301	(360,114,639)	878,157,348	11,444,709,240
1-12	2031	53,415	115,558,156	482,054,276	904,148	17,998,570	(385,398,837)	917,535,481	11,962,751,949
1-12	2032	49,142	105,488,447	497,675,556	772,923	17,630,267	(410,590,300)	957,972,134	12,494,888,592
1-12	2033	44,986	95,754,131	508,140,672	648,543	17,171,008	(430,206,093)	999,800,302	13,042,270,426
1-12	2034	40,964	86,393,199	514,025,406	525,129	16,602,526	(444,759,862)	1,043,560,697	13,611,864,635
1-12	2035	37,103	77,420,156	518,626,508	409,531	15,938,717	(457,554,599)	1,089,691,236	14,210,665,470
1-12	2036	33,430	68,910,183	523,652,739	316,611	15,205,710	(470,264,877)	1,138,423,193	14,842,802,106
1-12	2037	29,953	60,915,989	526,505,292	251,461	14,419,311	(480,260,075)	1,190,039,965	15,101,960,423
1-12	2038	26,673	53,478,444	522,250,624	199,928	13,578,493	(482,550,601)	1,245,166,098	16,220,740,315
1-12	2039	23,600	46,605,295	511,178,576	154,547	12,677,776	(477,405,603)	1,304,715,066	16,983,355,810
1-12	2040	20,755	40,308,437	497,671,877	114,800	11,738,949	(469,217,189)	1,369,452,898	17,810,665,273
1-12	2041	18,149	34,608,997	484,185,723	83,141	10,798,846	(460,458,712)	1,439,900,115	18,710,900,982
1-12	2042	15,780	29,507,354	467,907,242	60,918	9,882,751	(448,343,558)	1,516,619,192	19,690,342,385
1-12	2043	13,635	24,983,848	445,421,664	46,636	8,988,795	(429,473,246)	1,561,619,192	20,758,618,019
1-12	2044	11,707	21,005,380	418,215,369	35,563	8,108,663	(405,354,215)	1,600,504,877	21,929,649,649
1-12	2045	9,991	17,534,354	390,456,774	27,277	7,253,971	(380,203,667)	1,692,621,540	23,216,916,974
1-12	2046	8,479	14,536,729	364,331,736	20,400	6,445,124	(356,260,531)	1,793,861,267	24,630,574,575
1-12	2047	7,156	11,968,635	338,814,926	14,846	5,696,004	(332,557,141)	1,904,907,528	26,179,221,571
1-12	2048	6,004	9,788,959	311,329,680	10,735	5,011,906	(306,563,362)	2,026,448,404	27,873,112,834
1-12	2049	5,007	7,953,002	282,594,170	7,551	4,383,495	(279,032,215)	2,159,377,742	29,725,927,215
1-12	2050	4,146	6,413,530	254,801,117	5,022	3,805,856	(252,198,465)	2,304,762,302	31,751,657,302
1-12	2051	3,411	5,132,219	229,414,669	3,205	3,276,674	(227,562,329)	2,463,604,215	33,963,063,052
1-12	2052	2,789	4,073,414	206,978,773	2,125	2,799,049	(205,706,533)	2,636,833,585	36,372,334,308
1-12	2053	2,265	3,205,928	185,259,759	1,318	2,377,796	(184,432,945)	2,825,370,334	38,991,998,109
1-12	2054	1,827	2,501,976	163,438,013	746	2,006,212	(162,942,996)	3,030,255,324	41,837,820,488
1-12	2055	1,463	1,934,894	142,668,829	344	1,680,342	(142,414,621)	3,252,769,862	44,927,647,354
1-12	2056	1,163	1,481,609	123,754,815	79	1,397,149	(123,670,436)	3,494,264,971	48,279,497,704
1-12	2057	917	1,122,950	106,909,558	-	1,152,760	(106,939,368)	3,756,106,310	51,911,933,578
1-12	2058	719	842,384	91,783,307	-	943,995	(91,884,918)	4,039,728,410	55,844,722,620
1-12	2059	559	625,497	77,714,651	-	767,331	(77,856,484)	4,346,680,178	60,099,517,880
1-12	2060	432	463,561	65,012,177	-	618,805	(65,167,422)	4,678,673,252	64,700,334,647
1-12	2061	332	343,789	54,064,508	-	495,517	(54,216,237)	5,037,574,966	69,672,742,191
1-12	2062	254	253,048	44,767,022	-	394,530	(44,908,504)	5,425,357,621	75,043,883,575
1-12	2063	192	184,876	36,907,755	-	312,291	(37,035,170)	5,844,137,164	80,843,112,235
1-12	2064	145	134,008	30,322,781	-	245,705	(30,434,478)	6,296,208,295	87,102,285,360
1-12	2065	109	96,325	24,840,126	-	192,266	(24,936,067)	6,784,059,279	93,855,910,161
1-12	2066	81	68,703	20,266,140	-	149,586	(20,347,023)	7,310,384,511	101,141,358,605
1-12	2067	60	48,565	16,501,959	-	115,597	(16,568,991)	7,878,102,679	108,999,114,262
1-12	2068	44	33,926	13,329,296	-	88,889	(13,384,259)	8,490,371,944	117,472,917,214
1-12	2069	32	23,332	10,642,222	-	67,793	(10,686,683)	9,150,606,777	126,610,139,733
1-12	2070	23	15,744	8,418,141	-	51,121	(8,453,517)	9,862,503,142	136,461,956,192
1-6	2071	20	5,687	3,504,701	-	20,745	(3,519,759)	10,630,048,355	147,083,551,030

Attachment A(7)

Discount Rate at 5.50% (Represents an Industry Discount Rate)

California Public Employees Retirement System

Summary of Projected Values

All Plans

Discount Rate Years All Years: Annual
5.50%

LTC Program Funded Ratio:	90.69%						
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	(336,448,446)	= Standard Program Definition					
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	-10.25%	= Standard Program Definition					
Fund Balance @ End of Projection:	(8,557,973,879)	100.00%	100.00%				
Totals - 7/2011 thru 6/2071:	5,545,681,269	19,529,919,673	90,896,489	750,438,987	(14,825,573,880)	2,990,815,179	
As a % of Premiums:	100.00%	352.16%	1.64%	13.53%	-267.34%	53.93%	
Totals - Present Values:	3,282,831,996	6,500,513,589	62,116,964	333,434,711	(3,613,233,268)	3,635,976,877	
As a % of PV(Premiums):	100.00%	198.02%	1.89%	10.16%	-110.06%	110.76%	

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	86,518,260	3,387,165	8,981,681	64,327,889	90,050,168	3,276,784,822
1-12	2012	147,709	319,059,141	189,064,343	6,895,002	18,148,098	104,951,698	192,193,938	3,431,162,878
1-12	2013	143,043	310,506,451	213,621,901	7,167,348	18,746,908	70,970,294	207,653,567	3,728,308,514
1-12	2014	138,324	301,716,982	235,804,779	7,218,240	19,383,443	39,310,519	222,031,768	4,006,932,375
1-12	2015	133,569	292,812,777	252,377,141	6,975,166	20,045,063	13,415,407	235,698,156	4,268,274,663
1-12	2016	128,772	283,662,504	271,464,517	6,685,429	20,730,126	(15,217,569)	248,621,759	4,517,388,226
1-12	2017	123,912	274,128,945	291,313,450	6,346,259	21,274,336	(44,805,099)	260,631,767	4,750,792,417
1-12	2018	118,985	264,230,361	309,404,757	5,893,779	21,763,059	(72,831,233)	271,714,438	4,966,619,085
1-12	2019	114,031	254,007,602	326,727,442	5,344,120	22,208,604	(100,272,564)	281,897,722	5,165,502,290
1-12	2020	109,076	243,443,552	343,459,398	4,812,904	22,630,437	(127,459,187)	291,103,567	5,347,127,447
1-12	2021	104,128	232,599,901	357,608,875	4,330,873	23,046,183	(152,386,030)	299,399,020	5,510,771,827
1-12	2022	99,172	221,541,618	373,880,074	3,887,360	23,412,613	(179,638,430)	306,775,650	5,962,810,321
1-12	2023	94,202	210,311,139	393,964,804	3,405,930	23,700,092	(210,759,687)	312,914,436	5,784,922,037
1-12	2024	89,249	199,001,068	414,108,559	2,918,933	23,905,755	(241,932,180)	317,665,716	5,887,076,785
1-12	2025	84,345	187,658,130	435,644,456	2,507,685	24,047,771	(274,541,782)	320,939,141	5,962,810,321
1-12	2026	79,502	176,331,779	459,722,190	2,180,288	24,141,270	(309,711,968)	322,526,500	6,009,207,680
1-12	2027	74,710	165,080,604	483,751,478	1,906,328	24,152,780	(344,729,982)	322,252,389	6,022,022,211
1-12	2028	69,968	153,956,756	504,626,657	1,631,506	24,045,434	(376,346,841)	320,119,231	5,999,544,619
1-12	2029	65,294	142,987,659	521,966,548	1,364,822	23,812,655	(404,156,366)	316,236,977	5,943,317,008
1-12	2030	60,718	132,203,311	539,004,799	1,135,750	23,470,506	(431,407,744)	310,646,066	5,855,397,619
1-12	2031	56,254	121,641,574	558,280,229	951,176	23,058,064	(460,647,895)	303,206,065	5,734,635,941
1-12	2032	51,885	111,327,765	577,770,778	815,223	22,660,699	(489,918,935)	293,713,149	5,577,194,112
1-12	2033	47,618	101,314,984	591,395,682	685,794	22,142,029	(512,908,521)	282,250,018	5,380,988,326
1-12	2034	43,471	91,646,420	599,727,318	556,720	21,476,888	(530,114,506)	269,055,300	5,150,329,822
1-12	2035	39,474	82,340,290	606,614,417	435,286	20,682,434	(545,391,847)	254,263,548	4,889,270,617
1-12	2036	35,657	73,479,687	614,058,683	337,397	19,792,076	(560,708,468)	237,817,863	4,598,142,317
1-12	2037	32,030	65,124,492	618,983,471	268,664	18,825,823	(572,953,466)	219,687,311	4,275,251,712
1-12	2038	28,595	57,322,422	615,518,913	214,154	17,781,528	(576,192,173)	200,106,699	3,921,985,557
1-12	2039	25,365	50,086,087	603,959,865	165,968	16,651,118	(570,690,864)	179,526,355	3,545,900,083
1-12	2040	22,364	43,432,755	589,474,789	123,600	15,462,962	(561,628,596)	158,240,407	3,154,735,573
1-12	2041	19,607	37,389,850	574,966,945	89,744	14,265,872	(551,932,712)	136,304,665	2,751,347,384
1-12	2042	17,091	31,962,611	557,053,936	65,926	13,093,630	(538,250,881)	113,780,951	2,335,719,337
1-12	2043	14,806	27,134,548	531,609,781	50,599	11,943,747	(516,469,579)	90,979,929	1,911,249,407
1-12	2044	12,745	22,874,351	500,375,134	38,684	10,805,046	(488,344,513)	68,316,028	1,485,759,758
1-12	2045	10,905	19,145,498	468,334,699	29,746	9,693,356	(458,912,303)	46,012,202	1,065,731,273
1-12	2046	9,279	15,914,975	438,114,684	22,303	8,636,619	(430,858,631)	24,068,811	652,831,172
1-12	2047	7,851	13,138,654	408,476,443	16,273	7,654,212	(403,008,274)	2,445,696	246,041,353
1-12	2048	6,605	10,774,947	376,289,127	11,797	6,753,998	(372,279,974)	(18,768,817)	(154,521,225)
1-12	2049	5,521	8,777,852	342,413,795	8,319	5,923,852	(339,568,113)	(39,392,485)	(545,570,016)
1-12	2050	4,584	7,098,066	309,513,714	5,547	5,157,676	(307,578,872)	(59,359,029)	(924,530,614)
1-12	2051	3,782	5,695,635	279,384,459	3,549	4,452,864	(278,145,237)	(78,727,237)	(1,291,468,514)
1-12	2052	3,100	4,533,153	252,715,908	2,359	3,814,271	(251,999,384)	(97,630,887)	(1,648,340,988)
1-12	2053	2,524	3,577,784	226,780,559	1,467	3,249,204	(226,453,446)	(116,169,035)	(1,997,971,259)
1-12	2054	2,042	2,800,123	200,575,200	833	2,749,026	(200,524,936)	(116,169,035)	(2,340,593,740)
1-12	2055	1,639	2,171,711	175,529,878	385	2,308,856	(175,667,409)	(152,040,122)	(2,675,427,038)
1-12	2056	1,306	1,667,816	152,646,166	89	1,925,041	(152,903,480)	(169,434,195)	(3,003,134,569)
1-12	2057	1,033	1,267,848	132,205,250	-	1,592,690	(132,530,092)	(186,597,525)	(3,325,472,243)
1-12	2058	811	953,971	113,791,169	-	1,307,841	(114,145,038)	(203,641,389)	(3,644,599,860)
1-12	2059	633	710,557	96,592,605	-	1,065,999	(96,948,047)	(220,646,942)	(3,962,386,287)
1-12	2060	491	528,268	81,007,025	-	861,999	(81,340,757)	(237,680,771)	(4,279,981,276)
1-12	2061	378	393,029	67,534,843	-	692,124	(67,833,938)	(254,849,493)	(4,599,002,803)
1-12	2062	289	290,229	56,060,128	-	552,562	(56,322,462)	(254,849,493)	(4,921,686,234)
1-12	2063	220	212,735	46,332,471	-	438,570	(46,558,306)	(290,074,582)	(5,250,283,766)
1-12	2064	166	154,715	38,160,569	-	345,995	(38,351,849)	(308,359,215)	(5,586,916,654)
1-12	2065	125	111,585	31,339,195	-	271,479	(31,499,089)	(327,236,017)	(5,933,627,717)
1-12	2066	93	79,863	25,632,598	-	211,790	(25,764,525)	(346,805,611)	(6,292,362,824)
1-12	2067	69	56,654	20,924,166	-	164,111	(21,031,622)	(367,163,794)	(6,664,932,960)
1-12	2068	51	39,726	16,942,992	-	126,538	(17,029,804)	(388,402,793)	(7,053,128,376)
1-12	2069	37	27,430	13,560,292	-	96,768	(13,629,631)	(410,606,315)	(7,458,560,974)
1-12	2070	27	18,592	10,752,486	-	73,166	(10,807,059)	(433,859,884)	(7,882,796,919)
1-6	2071	23	6,742	4,484,883	-	29,652	(4,507,793)	(226,002,224)	(8,327,463,862)
									(8,557,973,879)

Attachment A(8) Morbidity 10% Higher

California Public Employees Retirement System Summary of Projected Values All Plans

LTC Program Funded Ratio:	105.65%							Discount Rate Years 1 - 10:	Annual 6.25%
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	175,105,243	= Standard Program Definition						Discount Rate Years 11+:	7.60%
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	5.78%	= Standard Program Definition							
Fund Balance @ End of Projection:	11,837,243,190	110.00%		100.00%					
Totals - 7/2011 thru 6/2071:	5,545,681,269	21,482,911,641	90,896,489	750,438,987	(16,778,565,848)	25,339,024,216			
As a % of Premiums:	100.00%	387.38%	1.64%	13.53%	-302.55%	456.91%			
Totals - Present Values:	3,028,780,651	5,782,011,323	58,838,801	289,610,105	(3,101,679,578)	5,299,399,230			
As a % of PV(Premiums):	100.00%	190.90%	1.94%	9.56%	-102.41%	174.97%			

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	95,170,086	3,387,165	8,981,681	55,676,063	102,014,486	3,276,784,822
1-12	2012	147,709	319,059,141	207,970,778	6,895,002	18,148,098	86,045,264	218,029,593	3,434,475,371
1-12	2013	143,043	310,506,451	234,984,091	7,167,348	18,746,908	49,608,104	235,961,473	3,738,550,228
1-12	2014	138,324	301,716,982	259,385,257	7,218,240	19,383,443	15,730,042	252,659,132	4,024,119,805
1-12	2015	133,569	292,812,777	277,614,855	6,975,166	20,045,063	(11,822,307)	268,580,403	4,292,508,978
1-12	2016	128,772	283,662,504	298,610,969	6,685,429	20,730,126	(42,364,020)	283,687,564	4,549,267,074
1-12	2017	123,912	274,128,945	320,444,795	6,346,259	21,274,336	(73,936,444)	297,768,930	4,790,590,618
1-12	2018	118,985	264,230,361	340,345,233	5,893,779	21,763,059	(103,771,709)	310,807,015	5,014,423,104
1-12	2019	114,031	254,007,602	359,400,186	5,344,120	22,208,604	(132,945,308)	322,836,433	5,221,458,409
1-12	2020	109,076	243,443,552	377,805,338	4,812,904	22,630,437	(161,805,127)	333,760,035	5,411,349,534
1-12	2021	104,128	232,599,901	393,369,763	4,330,873	23,046,183	(188,146,917)	380,360,217	5,583,304,442
1-12	2022	99,172	221,541,618	411,268,082	3,887,360	23,412,613	(217,026,437)	431,484,885	5,775,517,741
1-12	2023	94,202	210,311,139	433,361,284	3,405,930	23,700,092	(250,156,168)	446,533,845	5,989,976,189
1-12	2024	89,249	199,001,068	455,519,415	2,918,933	23,905,755	(283,343,036)	460,188,218	6,186,353,867
1-12	2025	84,345	187,658,130	479,208,902	2,507,685	24,047,771	(318,106,228)	472,320,937	6,363,199,049
1-12	2026	79,502	176,331,779	505,694,409	2,180,288	24,141,270	(355,684,187)	482,623,942	6,517,413,759
1-12	2027	74,710	165,080,604	532,126,626	1,906,328	24,152,780	(393,105,130)	490,831,882	6,644,353,514
1-12	2028	69,968	153,956,756	555,089,322	1,631,506	24,045,434	(426,809,507)	496,942,992	6,742,080,266
1-12	2029	65,294	142,987,659	574,163,203	1,364,822	23,812,655	(456,353,021)	501,118,353	6,812,213,751
1-12	2030	60,718	132,203,311	592,905,279	1,135,750	23,470,506	(485,308,224)	503,416,960	6,856,979,083
1-12	2031	56,254	121,641,574	614,108,252	951,176	23,058,064	(516,475,918)	503,623,934	6,875,087,820
1-12	2032	51,885	111,327,765	635,547,856	815,223	22,660,699	(547,696,013)	503,623,934	6,862,235,835
1-12	2033	47,618	101,314,984	650,535,250	685,794	22,142,029	(572,048,089)	501,423,345	6,815,963,168
1-12	2034	43,471	91,646,420	659,700,050	556,720	21,476,888	(590,087,238)	496,926,373	6,740,841,451
1-12	2035	39,474	82,340,290	667,275,859	435,286	20,682,434	(606,053,289)	490,482,452	6,641,236,666
1-12	2036	35,657	73,479,687	675,464,551	337,397	19,792,076	(622,114,337)	482,289,689	6,517,473,066
1-12	2037	32,030	65,124,492	680,881,818	268,664	18,825,823	(634,851,813)	472,258,667	6,367,617,396
1-12	2038	28,595	57,322,422	677,070,805	214,154	17,781,528	(637,744,065)	460,336,421	6,193,102,005
1-12	2039	25,365	50,086,087	664,355,852	165,968	16,651,118	(630,086,850)	446,871,735	6,002,229,675
1-12	2040	22,364	43,432,755	648,422,268	123,600	15,462,962	(620,576,075)	432,548,289	5,803,691,113
1-12	2041	19,607	37,389,850	632,463,639	89,744	14,265,872	(609,429,406)	417,827,284	5,600,942,322
1-12	2042	17,091	31,962,611	612,759,329	65,926	13,093,630	(593,956,274)	402,817,976	5,394,330,892
1-12	2043	14,806	27,134,548	584,770,759	50,599	11,943,747	(569,630,557)	387,641,755	5,188,016,373
1-12	2044	12,745	22,874,351	550,412,647	38,684	10,805,046	(538,382,026)	372,802,386	4,991,188,202
1-12	2045	10,905	19,145,498	515,168,168	29,746	9,693,356	(505,745,772)	358,974,550	4,811,780,725
1-12	2046	9,279	15,914,975	481,926,152	22,303	8,636,619	(474,670,099)	346,559,210	4,652,594,163
1-12	2047	7,851	13,138,654	449,324,087	16,273	7,654,212	(443,855,918)	335,630,959	4,513,555,022
1-12	2048	6,605	10,774,947	413,918,039	11,797	6,753,998	(409,908,887)	326,208,353	4,395,907,457
1-12	2049	5,521	8,777,852	376,655,174	8,319	5,923,852	(373,809,493)	318,510,223	4,304,508,793
1-12	2050	4,584	7,098,066	340,465,086	5,547	5,157,676	(338,530,243)	312,908,245	4,243,607,545
1-12	2051	3,782	5,695,635	307,322,905	3,549	4,452,864	(306,083,682)	309,611,363	4,214,688,665
1-12	2052	3,100	4,533,153	277,987,499	2,359	3,814,271	(277,270,975)	308,648,969	4,217,253,951
1-12	2053	2,524	3,577,784	249,458,615	1,467	3,249,204	(249,131,502)	309,943,729	4,249,926,705
1-12	2054	2,042	2,800,123	220,632,720	833	2,749,026	(220,582,456)	313,476,282	4,314,271,485
1-12	2055	1,639	2,171,711	193,082,866	385	2,308,856	(193,220,396)	319,435,726	4,413,124,755
1-12	2056	1,306	1,667,816	167,910,783	89	1,925,041	(168,168,096)	327,985,901	4,547,890,259
1-12	2057	1,033	1,267,848	145,425,775	-	1,592,690	(145,750,617)	339,182,962	4,718,905,125
1-12	2058	811	953,971	125,170,286	-	1,307,841	(125,524,155)	353,036,880	4,926,191,389
1-12	2059	633	710,557	106,251,865	-	1,065,999	(106,607,308)	369,560,747	5,170,227,981
1-12	2060	491	528,268	89,107,728	-	861,999	(89,441,459)	388,823,781	5,452,444,454
1-12	2061	378	393,029	74,288,327	-	692,124	(74,587,422)	410,929,616	5,773,932,611
1-12	2062	289	290,229	61,666,141	-	552,562	(61,928,475)	435,934,532	6,135,279,721
1-12	2063	220	212,735	50,965,718	-	438,570	(51,191,553)	463,884,697	6,537,235,943
1-12	2064	166	154,715	41,976,626	-	345,995	(42,167,906)	494,847,422	6,980,891,812
1-12	2065	125	111,585	34,473,114	-	271,479	(34,633,009)	528,913,907	7,467,637,813
1-12	2066	93	79,863	28,195,857	-	211,790	(28,327,785)	566,197,869	7,999,202,674
1-12	2067	69	56,654	23,016,583	-	164,111	(23,124,039)	606,840,393	8,577,715,282
1-12	2068	51	39,726	18,637,291	-	126,538	(18,724,103)	651,009,047	9,205,600,291
1-12	2069	37	27,430	14,916,322	-	96,768	(14,985,660)	698,897,548	9,885,773,736
1-12	2070	27	18,592	11,827,734	-	73,166	(11,882,308)	750,735,016	10,621,523,092
1-6	2071	23	6,742	4,933,371	-	29,652	(4,956,281)	806,772,230	11,416,413,014
								425,786,457	11,837,243,190

Attachment A(9) Expenses 20% Higher

California Public Employees Retirement System Summary of Projected Values All Plans

								Annual	
								Discount Rate Years 1 - 10:	6.25%
								Discount Rate Years 11+:	7.60%
LTC Program Funded Ratio:									
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):									
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):									
Fund Balance @ End of Projection:									
Totals - 7/2011 thru 6/2071:									
As a % of Premiums:									
Totals - Present Values:									
As a % of PV(Premiums):									
Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	86,518,260	3,387,165	10,492,770	62,816,800	102,122,541	3,276,784,822
1-12	2012	147,709	319,059,141	189,064,343	6,895,002	21,201,997	101,897,799	218,965,029	3,441,724,162
1-12	2013	143,043	310,506,451	213,621,901	7,167,348	21,903,545	67,813,657	238,013,317	3,762,586,990
1-12	2014	138,324	301,716,982	235,804,779	7,218,240	22,649,605	36,044,357	256,050,178	4,068,413,965
1-12	2015	133,569	292,812,777	252,377,141	6,975,166	23,425,233	10,035,237	273,499,716	4,360,508,501
1-12	2016	128,772	283,662,504	271,464,517	6,685,429	24,228,444	(18,715,886)	290,334,359	4,644,043,454
1-12	2017	123,912	274,128,945	291,313,450	6,346,259	24,884,247	(48,415,011)	306,368,096	4,915,661,927
1-12	2018	118,985	264,230,361	309,404,757	5,893,779	25,476,565	(76,544,740)	321,592,759	5,173,615,013
1-12	2019	114,031	254,007,602	326,727,442	5,344,120	26,018,321	(104,082,281)	336,047,966	5,418,663,032
1-12	2020	109,076	243,443,552	343,459,398	4,812,904	26,532,765	(131,361,515)	349,653,638	5,650,628,717
1-12	2021	104,128	232,599,901	357,608,875	4,330,873	27,040,968	(156,380,816)	401,270,384	5,868,920,839
1-12	2022	99,172	221,541,618	373,880,074	3,887,360	27,491,077	(183,716,894)	458,436,688	6,113,810,408
1-12	2023	94,202	210,311,139	393,964,804	3,405,930	27,847,685	(214,907,281)	478,136,837	6,388,530,202
1-12	2024	89,249	199,001,068	414,108,559	2,918,933	28,107,420	(246,133,845)	496,945,679	6,651,759,758
1-12	2025	84,345	187,658,130	435,644,456	2,507,685	28,291,957	(278,785,968)	514,777,343	6,902,571,593
1-12	2026	79,502	176,331,779	459,722,190	2,180,288	28,419,309	(313,990,007)	531,382,973	7,138,562,968
1-12	2027	74,710	165,080,604	483,751,478	1,906,328	28,449,291	(349,026,492)	546,555,670	7,355,955,934
1-12	2028	69,968	153,956,756	504,626,657	1,631,506	28,337,754	(380,639,161)	560,332,460	7,553,436,112
1-12	2029	65,294	142,987,659	521,966,548	1,364,822	28,076,858	(408,420,569)	572,902,206	7,733,178,411
1-12	2030	60,718	132,203,311	539,004,799	1,135,750	27,685,758	(435,622,996)	584,364,147	7,897,660,047
1-12	2031	56,254	121,641,574	558,280,229	951,176	27,211,164	(464,800,995)	594,571,553	8,046,401,198
1-12	2032	51,885	111,327,765	577,770,778	815,223	26,755,460	(494,013,696)	603,287,966	8,176,171,756
1-12	2033	47,618	101,314,984	591,395,682	685,794	26,155,095	(516,921,588)	610,670,180	8,285,446,026
1-12	2034	43,471	91,646,420	599,727,318	556,720	25,379,820	(534,017,438)	617,098,457	8,379,194,619
1-12	2035	39,474	82,340,290	606,614,417	435,286	24,450,075	(549,159,489)	622,820,397	8,462,275,639
1-12	2036	35,657	73,479,687	614,058,683	337,397	23,405,653	(564,322,046)	627,826,977	8,535,936,547
1-12	2037	32,030	65,124,492	618,983,471	268,664	22,270,288	(576,397,931)	632,147,662	8,599,441,479
1-12	2038	28,595	57,322,422	615,518,913	214,154	21,041,264	(579,451,909)	632,147,662	8,655,191,210
1-12	2039	25,365	50,086,087	603,959,865	165,968	19,708,783	(573,748,528)	636,183,188	8,778,819,657
1-12	2040	22,364	43,432,755	589,474,789	123,600	18,306,650	(564,472,284)	640,645,697	8,860,399,257
1-12	2041	19,607	37,389,850	574,966,945	89,744	16,893,102	(554,559,941)	646,051,884	8,958,444,455
1-12	2042	17,091	31,962,611	557,053,936	65,926	15,508,413	(540,665,664)	652,605,139	9,078,305,704
1-12	2043	14,806	27,134,548	531,609,781	50,599	14,149,485	(518,675,317)	660,526,913	9,230,024,700
1-12	2044	12,745	22,874,351	500,375,134	38,684	12,802,842	(490,342,310)	670,394,313	9,422,631,431
1-12	2045	10,905	19,145,498	468,334,699	29,746	11,487,386	(460,706,333)	682,949,041	9,660,618,587
1-12	2046	9,279	15,914,975	438,114,684	22,303	10,236,523	(432,458,535)	698,693,489	9,946,003,043
1-12	2047	7,851	13,138,654	408,476,443	16,273	9,073,438	(404,427,499)	717,842,990	10,282,147,981
1-12	2048	6,605	10,774,947	376,289,127	11,797	8,007,567	(373,533,543)	740,572,437	10,675,864,506
1-12	2049	5,521	8,777,852	342,413,795	8,319	7,024,410	(340,668,671)	767,250,068	11,133,591,635
1-12	2050	4,584	7,098,066	309,513,714	5,547	6,116,740	(308,537,935)	798,395,800	11,659,449,026
1-12	2051	3,782	5,695,635	279,384,459	3,549	5,281,490	(278,973,863)	834,395,326	12,255,960,867
1-12	2052	3,100	4,533,153	252,715,908	2,359	4,524,517	(252,709,630)	875,485,704	12,925,074,027
1-12	2053	2,524	3,577,784	226,780,559	1,467	3,854,650	(227,058,893)	921,822,790	13,671,646,905
1-12	2054	2,042	2,800,123	200,575,200	833	3,261,612	(201,037,522)	973,631,771	14,501,955,074
1-12	2055	1,639	2,171,711	175,529,878	385	2,739,641	(176,098,193)	1,031,345,691	15,421,251,300
1-12	2056	1,306	1,667,816	152,646,166	89	2,284,442	(153,262,881)	1,095,394,419	16,434,119,586
1-12	2057	1,033	1,267,848	132,205,250	-	1,890,225	(132,827,627)	1,166,131,167	17,545,182,023
1-12	2058	811	953,971	113,791,169	-	1,552,306	(114,389,503)	1,243,890,064	18,759,825,268
1-12	2059	633	710,557	96,592,605	-	1,265,370	(97,147,418)	1,329,032,748	20,084,676,269
1-12	2060	491	528,268	81,007,025	-	1,023,291	(81,502,048)	1,421,998,419	21,526,460,410
1-12	2061	378	393,029	67,534,843	-	821,684	(67,963,498)	1,523,286,189	23,091,879,832
1-12	2062	289	290,229	56,060,128	-	656,045	(56,425,945)	1,633,382,920	24,788,253,227
1-12	2063	220	212,735	46,332,471	-	520,744	(46,640,480)	1,752,799,340	26,623,713,801
1-12	2064	166	154,715	38,160,569	-	410,855	(38,416,709)	1,882,101,053	28,607,210,864
1-12	2065	125	111,585	31,339,195	-	322,398	(31,550,008)	2,021,913,773	30,748,585,830
1-12	2066	93	79,863	25,632,598	-	251,536	(25,804,271)	2,172,924,974	33,058,672,999
1-12	2067	69	56,654	20,924,166	-	194,925	(21,062,437)	2,335,891,440	35,549,252,412
1-12	2068	51	39,726	16,942,992	-	150,312	(17,053,579)	2,511,641,850	38,233,278,913
1-12	2069	37	27,430	13,560,292	-	114,960	(13,647,823)	2,701,080,079	41,124,828,627
1-12	2070	27	18,592	10,752,486	-	86,926	(10,820,819)	2,905,197,536	44,239,072,673
1-6	2071	23	6,742	4,484,883	-	35,157	(4,513,299)	3,125,064,865	45,884,777,214

Attachment A(10)

Lapses .25% Lower

California Public Employees Retirement System

Summary of Projected Values

All Plans

LTC Program Funded Ratio:	121.97%							Discount Rate Years 1 - 10:	Annual 6.25%
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	590,205,676	= Standard Program Definition						Discount Rate Years 11+:	7.60%
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	19.10%	= Standard Program Definition							
Fund Balance @ End of Projection:	41,572,448,521	100.00%			100.00%				
Totals - 7/2011 thru 6/2071:	5,714,328,557	20,582,978,919	92,743,140	784,804,998	(15,746,198,501)	54,041,862,200			
As a % of Premiums:	100.00%	360.20%	1.62%	13.73%	-275.56%	945.73%			
Totals - Present Values:	3,089,486,819	5,418,684,262	59,735,693	297,646,010	(2,686,579,146)	6,760,209,916			
As a % of PV(Premiums):	100.00%	175.39%	1.93%	9.63%	-86.96%	218.81%			

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,481	163,357,347	86,518,961	3,389,183	8,987,789	64,461,415	102,147,532	3,276,784,822
1-12	2012	148,268	319,954,080	189,107,055	6,912,096	18,189,490	105,745,439	219,185,903	3,443,393,769
1-12	2013	143,946	312,178,277	213,817,710	7,203,222	18,829,628	72,327,717	238,511,219	3,768,325,110
1-12	2014	139,548	304,119,788	236,276,467	7,272,492	19,510,422	41,060,406	256,878,914	4,079,164,046
1-12	2015	135,090	295,900,125	253,248,529	7,045,264	20,219,421	15,386,910	274,706,166	4,377,103,366
1-12	2016	130,568	287,385,386	272,873,048	6,769,612	20,955,104	(13,212,378)	291,957,513	4,667,196,443
1-12	2017	125,956	278,434,160	293,389,619	6,442,333	21,560,035	(42,957,828)	308,437,262	4,945,941,577
1-12	2018	121,253	269,061,545	312,260,481	5,998,047	22,112,304	(71,309,288)	324,127,261	5,211,421,012
1-12	2019	116,498	259,307,110	330,461,919	5,452,375	22,623,239	(99,230,423)	339,057,961	5,464,238,986
1-12	2020	111,716	249,151,977	348,214,973	4,922,809	23,112,448	(127,098,252)	353,138,697	5,704,066,524
1-12	2021	106,917	238,657,243	363,552,180	4,440,988	23,597,795	(152,933,719)	405,646,661	5,930,106,969
1-12	2022	102,085	227,888,029	381,148,865	3,996,272	24,034,798	(181,291,907)	463,792,836	6,182,819,910
1-12	2023	97,214	216,885,958	402,641,807	3,510,204	24,392,561	(213,658,614)	484,041,634	6,465,320,839
1-12	2024	92,335	205,744,423	424,252,123	3,015,934	24,667,518	(246,191,152)	503,346,477	6,735,703,860
1-12	2025	87,481	194,510,887	447,403,144	2,597,628	24,877,866	(280,367,751)	521,605,015	6,992,859,184
1-12	2026	82,666	183,236,443	473,299,828	2,264,253	25,038,797	(317,366,434)	538,543,887	7,234,096,449
1-12	2027	77,881	171,982,101	499,272,513	1,984,786	25,115,073	(354,390,272)	553,930,659	7,455,273,902
1-12	2028	73,121	160,802,530	522,094,383	1,702,982	25,067,591	(388,062,427)	567,783,201	7,654,814,289
1-12	2029	68,409	149,727,087	541,345,479	1,428,263	24,888,541	(417,935,195)	580,276,702	7,834,535,063
1-12	2030	63,776	138,788,287	560,390,741	1,191,599	24,593,779	(447,387,832)	591,492,684	7,996,876,570
1-12	2031	59,237	128,027,770	581,870,930	1,000,523	24,223,535	(479,067,218)	601,255,009	8,140,981,422
1-12	2032	54,774	117,473,434	603,645,835	859,722	23,867,227	(510,899,351)	609,296,719	8,263,169,213
1-12	2033	50,397	107,182,613	619,422,615	725,082	23,380,794	(536,345,878)	615,755,419	8,361,566,581
1-12	2034	46,125	97,203,711	629,702,141	590,124	22,736,613	(555,825,168)	621,002,975	8,440,976,122
1-12	2035	41,990	87,558,634	638,528,420	462,590	21,951,723	(573,384,099)	625,273,552	8,506,153,929
1-12	2036	38,027	78,338,677	648,012,278	359,489	21,060,626	(591,093,717)	628,529,786	8,558,043,382
1-12	2037	34,245	69,611,210	654,876,736	286,995	20,083,870	(605,636,391)	630,774,406	8,595,479,451
1-12	2038	30,650	61,431,170	652,837,949	229,352	19,018,492	(610,654,623)	632,404,829	8,620,617,466
1-12	2039	27,258	53,816,329	642,158,876	178,200	17,855,164	(606,375,911)	634,151,544	8,642,367,672
1-12	2040	24,095	46,789,724	628,324,228	133,049	16,623,678	(598,291,231)	636,538,212	8,670,143,304
1-12	2041	21,178	40,385,606	614,423,284	96,854	15,376,169	(589,510,700)	639,754,397	8,708,390,286
1-12	2042	18,508	34,614,563	596,796,208	71,332	14,149,039	(576,402,016)	644,009,708	8,758,633,983
1-12	2043	16,074	29,463,668	570,956,975	54,888	12,939,733	(554,487,928)	649,897,280	8,826,241,675
1-12	2044	13,872	24,903,721	538,738,168	42,070	11,736,254	(525,612,770)	658,189,029	8,921,651,028
1-12	2045	11,900	20,899,552	505,502,729	32,432	10,555,924	(495,191,533)	669,399,350	9,054,227,287
1-12	2046	10,151	17,419,464	474,089,014	24,378	9,429,452	(466,123,380)	683,731,730	9,228,435,104
1-12	2047	8,611	14,419,251	443,149,471	17,832	8,378,492	(437,126,544)	701,344,409	9,446,043,454
1-12	2048	7,263	11,857,015	409,259,719	12,960	7,412,261	(404,827,925)	722,604,587	9,710,261,320
1-12	2049	6,088	9,685,517	373,347,231	9,162	6,518,078	(370,188,955)	748,043,403	10,028,037,981
1-12	2050	5,068	7,853,368	338,321,440	6,125	5,689,785	(336,163,982)	778,043,169	10,405,892,429
1-12	2051	4,191	6,318,989	306,162,379	3,928	4,925,014	(304,772,332)	812,820,281	10,847,771,616
1-12	2052	3,444	5,043,196	277,654,922	2,618	4,229,675	(276,844,018)	852,497,243	11,355,819,564
1-12	2053	2,812	3,991,470	249,800,921	1,633	3,612,445	(249,423,528)	897,268,008	11,931,472,789
1-12	2054	2,280	3,132,738	221,494,197	929	3,064,310	(221,426,698)	947,551,469	12,579,317,269
1-12	2055	1,835	2,436,653	194,326,245	431	2,580,365	(194,470,387)	1,003,758,025	13,305,442,040
1-12	2056	1,466	1,876,736	169,420,398	100	2,157,023	(169,700,785)	1,066,207,298	14,114,729,678
1-12	2057	1,163	1,430,893	147,107,396	-	1,789,274	(147,465,777)	1,135,191,038	15,011,236,191
1-12	2058	916	1,079,904	126,941,822	-	1,473,096	(127,335,014)	1,211,024,050	15,998,961,452
1-12	2059	716	806,841	108,027,372	-	1,203,823	(108,424,355)	1,294,099,800	17,082,650,487
1-12	2060	557	601,737	90,823,296	-	975,980	(91,197,540)	1,384,870,412	18,268,325,933
1-12	2061	430	449,109	75,908,041	-	785,680	(76,244,613)	1,483,764,853	19,561,998,805
1-12	2062	330	332,705	63,167,243	-	628,883	(63,463,421)	1,483,764,853	20,969,519,045
1-12	2063	252	244,662	52,335,097	-	500,440	(52,590,876)	1,707,757,815	22,497,284,230
1-12	2064	191	178,519	43,211,384	-	395,828	(43,428,693)	1,833,904,322	24,152,451,169
1-12	2065	144	129,184	35,575,996	-	311,383	(35,758,195)	1,970,276,833	25,942,926,797
1-12	2066	108	92,775	29,170,706	-	243,547	(29,321,479)	2,117,548,794	27,877,445,436
1-12	2067	80	66,046	23,872,128	-	189,206	(23,995,288)	2,276,460,416	29,965,672,751
1-12	2068	59	46,481	19,377,645	-	146,263	(19,477,427)	2,447,821,433	32,218,137,878
1-12	2069	43	32,222	15,546,465	-	112,141	(15,626,384)	2,632,524,130	34,646,481,884
1-12	2070	31	21,935	12,357,348	-	85,006	(12,420,420)	2,831,532,537	37,263,379,630
1-6	2071	27	7,985	5,163,846	-	34,508	(5,190,370)	1,495,147,144	40,082,491,747
									41,572,448,521

Attachment A(11)

Combination of A(7), A(8), A(9), and A(10)

California Public Employees Retirement System

Summary of Projected Values

All Plans

LTC Program Funded Ratio:	72.51%							Discount Rate Years All Years:	Annual 5.50%
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	(1,242,362,382)	= Standard Program Definition							
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	-37.04%	= Standard Program Definition							
Fund Balance @ End of Projection:	(31,110,980,708)	110.00%				120.00%			
Totals - 7/2011 thru 6/2071:	5,714,328,557	22,641,276,811	92,743,140	924,566,905	(17,944,258,299)	(16,443,507,231)			
As a % of Premiums:	100.00%	396.22%	1.62%	16.18%	-314.02%	-287.76%			
Totals - Present Values:	3,354,136,743	7,406,186,297	63,111,478	403,986,171	(4,519,147,203)	1,667,363,331			
As a % of PV(Premiums):	100.00%	220.81%	1.88%	12.04%	-134.73%	49.71%			

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,481	163,357,347	95,170,857	3,389,183	10,500,099	54,297,208	89,916,173	3,276,784,822
1-12	2012	148,268	319,954,080	208,017,761	6,912,096	21,251,667	83,772,556	191,065,583	3,420,998,203
1-12	2013	143,946	312,178,277	235,199,481	7,203,222	22,002,809	47,772,765	205,250,547	3,695,836,342
1-12	2014	139,548	304,119,788	259,904,114	7,272,492	22,801,980	14,141,202	218,161,984	3,948,859,654
1-12	2015	135,090	295,900,125	278,573,382	7,045,264	23,634,463	(13,352,984)	230,190,733	4,181,162,839
1-12	2016	130,568	287,385,386	300,160,353	6,769,612	24,498,417	(44,042,996)	241,286,327	4,398,000,588
1-12	2017	125,956	278,434,160	322,728,581	6,442,333	25,225,597	(75,962,352)	251,244,842	4,595,243,919
1-12	2018	121,253	269,061,545	343,486,529	5,998,047	25,892,569	(106,315,601)	260,034,649	3,770,526,410
1-12	2019	116,498	259,307,110	363,508,111	5,452,375	26,511,225	(136,164,601)	267,670,314	4,924,245,458
1-12	2020	111,716	249,151,977	383,036,470	4,922,809	27,104,997	(165,912,298)	274,048,623	5,055,751,171
1-12	2021	106,917	238,657,243	399,907,398	4,440,988	27,695,249	(193,386,391)	279,222,173	5,163,887,496
1-12	2022	102,085	227,888,029	419,263,752	3,996,272	28,228,633	(223,600,628)	283,159,479	5,249,723,279
1-12	2023	97,214	216,885,958	442,905,987	3,510,204	28,668,239	(258,198,472)	285,488,651	5,309,282,129
1-12	2024	92,335	205,744,423	466,677,335	3,015,934	29,009,865	(292,958,711)	286,025,299	5,336,572,308
1-12	2025	87,481	194,510,887	492,143,459	2,597,628	29,275,229	(329,505,429)	286,025,299	5,329,638,895
1-12	2026	82,666	183,236,443	520,629,811	2,264,253	29,482,423	(369,140,043)	284,647,487	5,284,780,954
1-12	2027	77,881	171,982,101	549,199,764	1,984,786	29,589,150	(408,791,600)	281,096,557	5,196,737,468
1-12	2028	73,121	160,802,530	574,303,821	1,702,982	29,548,590	(444,752,864)	275,148,827	5,063,094,695
1-12	2029	68,409	149,727,087	595,480,026	1,428,263	29,351,433	(476,532,635)	266,781,346	4,885,123,177
1-12	2030	63,776	138,788,287	616,429,815	1,191,599	29,016,593	(507,849,719)	256,093,457	4,664,683,999
1-12	2031	59,237	128,027,770	640,058,023	1,000,523	28,592,160	(541,622,936)	243,104,405	4,399,938,685
1-12	2032	54,774	117,473,434	664,010,419	859,722	28,185,386	(575,582,093)	227,624,294	4,085,940,043
1-12	2033	50,397	107,182,613	681,364,876	725,082	27,623,513	(602,530,858)	209,391,001	3,719,748,951
1-12	2034	46,125	97,203,711	692,672,355	590,124	26,873,349	(622,932,117)	188,466,552	3,305,684,645
1-12	2035	41,990	87,558,634	702,381,262	462,590	25,955,193	(641,240,412)	165,093,848	2,847,846,376
1-12	2036	38,027	78,338,677	712,813,506	359,489	24,910,139	(659,744,458)	139,396,523	2,346,002,487
1-12	2037	34,245	69,611,210	720,364,409	286,995	23,762,558	(674,802,752)	111,274,511	1,797,532,541
1-12	2038	30,650	61,431,170	718,121,744	229,352	22,508,747	(679,428,673)	80,656,444	1,203,386,232
1-12	2039	27,258	53,816,329	706,374,763	178,200	21,137,397	(673,874,031)	47,780,958	571,738,518
1-12	2040	24,095	46,789,724	691,156,651	133,049	19,684,004	(664,183,980)	13,140,022	(88,995,491)
1-12	2041	21,178	40,385,606	675,865,613	96,854	18,210,772	(653,787,631)	(22,956,841)	(776,136,312)
1-12	2042	18,508	34,614,563	656,475,829	71,332	16,761,093	(638,693,691)	(60,480,876)	(1,490,404,819)
1-12	2043	16,074	29,463,668	628,052,672	54,888	15,331,775	(613,975,667)	(99,396,936)	(2,228,495,446)
1-12	2044	13,872	24,903,721	592,611,984	42,070	13,908,346	(581,658,679)	(139,375,306)	(2,981,846,419)
1-12	2045	11,900	20,899,552	556,053,002	32,432	12,511,482	(547,697,364)	(179,962,160)	(3,743,467,258)
1-12	2046	10,151	17,419,464	521,497,915	24,378	11,177,893	(515,280,722)	(220,930,600)	(4,512,095,221)
1-12	2047	8,611	14,419,251	487,464,418	17,832	9,933,478	(482,996,477)	(262,319,591)	(5,289,695,534)
1-12	2048	7,263	11,857,015	450,185,690	12,960	8,789,289	(447,130,924)	(304,218,076)	(6,076,910,087)
1-12	2049	6,088	9,685,517	410,681,954	9,162	7,730,149	(408,735,748)	(346,562,774)	(6,870,603,785)
1-12	2050	5,068	7,853,368	372,153,584	6,125	6,748,756	(371,055,097)	(389,178,805)	(7,668,518,338)
1-12	2051	4,191	6,318,989	336,778,617	3,928	5,842,327	(336,305,884)	(432,032,143)	(8,471,605,579)
1-12	2052	3,444	5,043,196	305,420,414	2,618	5,017,976	(305,397,811)	(475,241,746)	(9,283,153,209)
1-12	2053	2,812	3,991,470	274,781,013	1,633	4,286,172	(275,077,347)	(519,020,596)	(10,107,571,616)
1-12	2054	2,280	3,132,738	243,643,617	929	3,636,185	(244,147,993)	(563,543,419)	(10,946,192,382)
1-12	2055	1,835	2,436,653	213,758,869	431	3,062,226	(214,384,872)	(608,827,222)	(11,799,167,596)
1-12	2056	1,466	1,876,736	186,362,438	100	2,560,082	(187,045,884)	(654,922,118)	(12,668,474,587)
1-12	2057	1,163	1,430,893	161,818,136	-	2,123,818	(162,511,062)	(701,977,850)	(13,557,498,321)
1-12	2058	916	1,079,904	139,636,005	-	1,748,683	(140,304,784)	(750,193,687)	(14,470,203,070)
1-12	2059	716	806,841	118,830,110	-	1,429,159	(119,452,428)	(799,778,945)	(15,410,286,799)
1-12	2060	557	601,737	99,905,625	-	1,158,752	(100,462,641)	(850,910,718)	(16,380,649,945)
1-12	2061	430	449,109	83,498,846	-	932,875	(83,982,611)	(903,752,985)	(17,384,865,571)
1-12	2062	330	332,705	69,483,967	-	746,756	(69,898,018)	(958,524,467)	(18,427,372,649)
1-12	2063	252	244,662	57,568,607	-	594,284	(57,918,229)	(1,015,468,526)	(19,512,739,193)
1-12	2064	191	178,519	47,532,523	-	470,090	(47,824,094)	(1,074,828,438)	(20,645,485,861)
1-12	2065	144	129,184	39,133,595	-	369,834	(39,374,244)	(1,136,846,481)	(21,830,156,436)
1-12	2066	108	92,775	32,087,777	-	289,290	(32,284,292)	(1,201,766,324)	(23,071,297,005)
1-12	2067	80	66,046	26,259,341	-	224,760	(26,418,055)	(1,269,830,287)	(24,373,411,583)
1-12	2068	59	46,481	21,315,410	-	173,765	(21,442,693)	(1,341,281,583)	(25,741,111,221)
1-12	2069	43	32,222	17,101,112	-	133,239	(17,202,129)	(1,416,366,201)	(27,178,920,116)
1-12	2070	31	21,935	13,593,083	-	101,006	(13,672,154)	(1,495,326,926)	(28,691,449,171)
1-6	2071	27	7,985	5,680,231	-	40,922	(5,713,168)	(1,578,416,755)	(30,283,538,080)
								(821,729,459)	(31,110,980,708)

Attachment A(12)

19 Years of Morbidity and Mortality Improvement

California Public Employees Retirement System

Summary of Projected Values

All Plans

LTC Program Funded Ratio:	126.72%						Starting Rate:	6.25%
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	690,956,633	= Standard Program Definition					Investment Rate:	Scenario 1
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	22.82%	= Standard Program Definition					Discount Rate:	Scenario 1
Fund Balance @ End of Projection:	48,791,856,196	100.00%			100.00%			
Totals - 7/2011 thru 6/2071:	5,542,511,960	19,600,269,221	90,896,489	752,054,021	(14,900,707,771)	60,415,779,145		
As a % of Premiums:	100.00%	353.64%	1.64%	13.57%	-268.84%	1090.04%		
Totals - Present Values:	3,028,342,769	5,265,435,419	58,838,801	289,896,737	(2,585,828,188)	6,990,993,175		
As a % of PV(Premiums):	100.00%	173.87%	1.94%	9.57%	-85.39%	230.85%		

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	86,518,260	3,387,165	8,981,681	64,327,889	102,145,483	3,276,784,822
1-12	2012	147,709	319,059,141	189,064,343	6,895,002	18,148,098	104,951,698	219,154,237	3,443,258,194
1-12	2013	143,043	310,506,451	213,621,901	7,167,348	18,746,908	70,970,294	238,408,258	3,767,364,129
1-12	2014	138,324	301,716,982	235,804,779	7,218,240	19,383,443	39,310,519	256,670,452	4,076,742,681
1-12	2015	133,569	292,812,777	252,377,141	6,975,166	20,045,063	13,415,407	274,366,302	4,372,723,653
1-12	2016	128,772	283,662,504	271,464,517	6,685,429	20,730,126	(15,217,569)	291,470,022	4,660,505,363
1-12	2017	123,912	274,128,945	291,313,450	6,346,259	21,274,336	(44,805,099)	307,796,860	4,936,757,816
1-12	2018	118,985	264,230,361	309,404,757	5,893,779	21,763,059	(72,831,233)	323,339,651	5,199,749,577
1-12	2019	114,031	254,007,602	326,727,442	5,344,120	22,208,604	(100,272,564)	338,139,143	5,450,257,995
1-12	2020	109,076	243,443,552	343,459,398	4,812,904	22,630,437	(127,459,187)	352,116,421	5,688,124,575
1-12	2021	104,128	232,599,901	357,608,875	4,330,873	23,046,183	(152,386,030)	404,448,471	5,912,781,808
1-12	2022	99,172	221,541,618	373,880,074	3,887,360	23,412,613	(179,638,430)	462,466,712	6,164,844,249
1-12	2023	94,202	210,311,139	393,964,804	3,405,930	23,700,092	(210,759,687)	482,785,786	6,462,672,531
1-12	2024	89,249	199,001,068	414,108,559	2,918,933	23,905,755	(241,932,180)	502,265,290	6,719,698,630
1-12	2025	84,345	187,658,130	435,644,456	2,507,685	24,047,771	(274,541,782)	520,822,194	6,980,031,740
1-12	2026	79,502	176,331,779	459,722,190	2,180,288	24,141,270	(309,711,968)	538,211,128	7,226,312,152
1-12	2027	74,710	165,080,604	483,751,478	1,906,328	24,152,780	(344,729,982)	554,228,751	7,454,811,312
1-12	2028	69,968	153,956,756	504,626,657	1,631,506	24,045,434	(376,346,841)	568,915,249	7,664,310,081
1-12	2029	65,294	142,987,659	521,966,548	1,364,822	23,812,655	(404,156,366)	582,462,629	7,856,878,488
1-12	2030	60,718	132,203,165	539,011,801	1,135,750	23,496,538	(431,440,924)	594,973,152	8,035,184,752
1-12	2031	56,236	121,608,663	558,739,048	951,176	23,209,694	(461,291,255)	606,285,398	8,198,716,979
1-12	2032	51,851	111,234,475	579,309,527	815,223	22,820,953	(491,711,228)	616,113,423	8,343,711,122
1-12	2033	47,571	101,175,356	593,853,902	685,794	22,292,130	(515,656,470)	624,605,056	8,468,113,317
1-12	2034	43,414	91,472,926	602,890,340	556,720	21,616,091	(533,590,226)	632,155,915	8,577,061,903
1-12	2035	39,409	82,143,363	610,314,958	435,286	20,810,291	(549,417,171)	639,028,149	8,675,627,593
1-12	2036	35,587	73,268,457	618,164,769	337,397	19,908,579	(565,142,288)	645,225,125	8,765,238,570
1-12	2037	31,957	64,906,895	623,359,991	268,664	18,931,236	(577,652,997)	650,788,592	8,845,321,407
1-12	2038	28,521	57,105,266	620,005,141	214,154	17,876,092	(580,990,120)	656,133,930	8,918,457,003
1-12	2039	25,292	49,874,705	608,423,080	165,968	16,734,995	(575,449,339)	661,989,168	8,993,600,813
1-12	2040	22,293	43,230,968	593,832,405	123,600	15,536,534	(566,261,570)	668,884,517	9,080,140,642
1-12	2041	19,539	37,200,559	579,151,001	89,744	14,329,917	(556,370,104)	677,035,911	9,182,763,589
1-12	2042	17,027	31,787,878	560,993,811	65,926	13,149,135	(542,420,994)	686,678,542	9,303,429,396
1-12	2043	14,746	26,975,688	535,244,109	50,599	11,991,565	(520,310,585)	698,404,308	9,447,686,944
1-12	2044	12,690	22,731,779	503,673,642	38,684	10,845,783	(491,826,330)	712,969,196	9,625,780,667
1-12	2045	10,856	19,018,991	471,306,667	29,746	9,727,639	(462,045,061)	730,888,018	9,846,923,533
1-12	2046	9,234	15,803,950	440,787,905	22,303	8,665,215	(433,671,473)	752,387,478	10,115,766,490
1-12	2047	7,811	13,042,241	410,872,506	16,273	7,677,957	(405,524,494)	777,654,541	10,434,482,495
1-12	2048	6,570	10,692,028	378,412,379	11,797	6,773,651	(374,505,799)	807,071,709	10,806,612,543
1-12	2049	5,491	8,707,149	344,273,480	8,319	5,939,979	(341,514,629)	841,174,824	11,239,178,453
1-12	2050	4,558	7,038,257	311,132,289	5,547	5,170,729	(309,270,308)	880,365,677	11,738,838,648
1-12	2051	3,759	5,645,462	280,791,288	3,549	4,463,260	(279,612,635)	924,897,844	12,309,934,017
1-12	2052	3,081	4,491,394	253,941,133	2,359	3,822,430	(253,274,527)	974,944,605	12,955,219,226
1-12	2053	2,508	3,543,298	227,838,100	1,467	3,255,546	(227,551,816)	1,030,750,618	13,676,889,303
1-12	2054	2,028	2,771,866	201,473,278	833	2,753,886	(201,456,130)	1,092,770,924	14,480,088,106
1-12	2055	1,628	2,148,739	176,283,482	385	2,312,515	(176,447,644)	1,161,458,823	15,371,402,899
1-12	2056	1,297	1,649,305	153,274,054	89	1,927,745	(153,552,583)	1,237,192,233	16,356,414,079
1-12	2057	1,026	1,253,070	132,726,117	-	1,594,653	(133,067,701)	1,320,331,695	17,440,053,729
1-12	2058	805	942,286	114,220,331	-	1,309,249	(114,587,294)	1,411,267,332	18,627,317,723
1-12	2059	628	701,405	96,940,506	-	1,067,001	(97,306,102)	1,510,469,295	19,923,997,760
1-12	2060	487	521,117	81,285,384	-	862,695	(81,626,962)	1,618,470,114	21,337,160,954
1-12	2061	375	387,453	67,756,702	-	692,596	(68,061,845)	1,735,792,376	22,874,004,105
1-12	2062	287	285,925	56,236,907	-	552,881	(56,503,863)	1,862,985,247	24,541,734,636
1-12	2063	218	209,445	46,473,443	-	438,784	(46,702,781)	2,000,655,785	26,348,216,020
1-12	2064	165	152,218	38,273,208	-	346,134	(38,467,125)	2,149,474,400	28,302,169,024
1-12	2065	124	109,700	31,429,326	-	271,567	(31,591,193)	2,310,176,740	30,413,176,299
1-12	2066	93	78,446	25,704,498	-	211,841	(25,837,892)	2,483,571,505	32,691,761,846
1-12	2067	69	55,595	20,981,478	-	164,135	(21,090,018)	2,670,543,281	35,149,495,458
1-12	2068	51	38,937	16,988,114	-	126,544	(17,075,722)	2,872,056,131	37,798,948,722
1-12	2069	37	26,844	13,595,116	-	96,761	(13,665,033)	3,089,166,275	40,653,929,131
1-12	2070	27	18,159	10,778,898	-	73,149	(10,833,887)	3,323,014,081	43,729,430,374
1-6	2071	23	6,572	4,495,476	-	29,638	(4,518,542)	1,754,764,170	47,041,610,568
									48,791,856,196

Attachment(13) No Morbidity or Mortality Improvement

California Public Employees Retirement System Summary of Projected Values All Plans

									Annual
									6.25%
									Scenario 1
									Scenario 1
LTC Program Funded Ratio:			107.59%						
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):			231,156,571 = Standard Program Definition						
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):			7.75% = Standard Program Definition						
Fund Balance @ End of Projection:			15,848,255,905 100.00%			100.00%			
Totals - 7/2011 thru 6/2071:			5,373,063,963 21,440,608,375 90,896,489 797,484,553 (16,955,925,454) 29,527,396,538						
As a % of Premiums:			100.00% 399.04% 1.69% 14.84%			-315.57%			549.54%
Totals - Present Values:			2,982,496,441 5,664,691,469 58,838,801 304,594,421 (3,045,628,251) 5,627,351,976						
As a % of PV(Premiums):			100.00% 189.93% 1.97% 10.21%			-102.12%			188.68%
Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,842	86,520,639	3,387,165	8,996,208	64,310,829	102,145,311	3,276,784,822
1-12	2012	147,683	319,013,080	189,224,744	6,895,002	18,252,161	104,641,173	219,146,294	3,443,240,962
1-12	2013	142,966	310,323,763	214,369,032	7,167,348	18,957,871	69,829,512	238,357,579	3,767,028,429
1-12	2014	138,172	301,315,395	237,602,595	7,218,240	19,708,940	36,785,620	256,504,781	4,075,215,519
1-12	2015	133,320	292,116,794	255,678,231	6,975,166	20,493,431	8,969,966	273,975,616	4,368,505,921
1-12	2016	128,407	282,605,375	276,755,970	6,685,429	21,310,050	(22,146,074)	290,702,619	4,651,451,503
1-12	2017	123,411	272,653,550	299,040,711	6,346,259	21,989,013	(54,722,433)	306,457,877	4,920,008,047
1-12	2018	118,334	262,289,409	319,930,824	5,893,779	22,616,026	(86,151,220)	321,193,149	5,171,743,492
1-12	2019	113,215	251,566,044	340,354,594	5,344,120	23,202,844	(117,335,514)	334,911,209	5,406,785,421
1-12	2020	108,085	240,471,882	360,619,884	4,812,904	23,769,696	(148,730,602)	347,492,098	5,624,361,116
1-12	2021	102,956	229,079,735	378,797,943	4,330,873	24,335,668	(178,384,749)	373,331,995	5,823,122,611
1-12	2022	97,814	217,467,127	399,482,205	3,887,360	24,853,374	(210,755,813)	397,331,995	6,042,069,858
1-12	2023	92,657	205,687,050	424,171,233	3,405,930	25,288,279	(247,178,393)	451,993,835	6,283,307,880
1-12	2024	87,519	193,843,517	449,017,522	2,918,933	25,635,737	(283,728,676)	468,952,599	6,505,082,086
1-12	2025	82,436	181,986,812	475,616,427	2,507,685	25,914,777	(322,052,077)	484,410,567	6,705,763,978
1-12	2026	77,422	170,175,658	505,265,157	2,180,288	26,141,851	(363,411,639)	498,221,336	6,881,933,237
1-12	2027	72,473	158,481,099	535,116,493	1,906,328	26,278,148	(404,819,870)	510,051,249	7,028,572,847
1-12	2028	67,586	146,965,622	561,691,202	1,631,506	26,278,731	(442,635,817)	519,606,903	7,143,359,880
1-12	2029	62,783	135,663,546	584,477,298	1,364,822	26,133,858	(476,312,431)	526,859,657	7,227,583,720
1-12	2030	58,099	124,606,470	607,066,468	1,135,750	25,860,736	(509,456,483)	531,949,868	7,283,221,157
1-12	2031	53,549	113,836,657	632,244,236	951,176	25,473,853	(544,832,608)	534,917,297	7,308,681,971
1-12	2032	49,135	103,417,590	657,100,926	815,223	24,957,969	(579,456,527)	535,522,906	7,299,372,269
1-12	2033	44,862	93,436,912	674,242,374	685,794	24,290,916	(605,782,172)	533,456,060	7,253,371,801
1-12	2034	40,744	83,918,398	684,261,070	556,720	23,465,951	(624,365,342)	528,895,741	7,176,485,371
1-12	2035	36,809	74,859,682	691,693,041	435,286	22,505,476	(639,774,121)	522,289,276	7,074,409,305
1-12	2036	33,084	66,327,981	698,943,675	337,397	21,449,919	(654,403,010)	513,923,907	6,948,559,091
1-12	2037	29,573	58,369,846	702,709,216	268,664	20,323,234	(664,931,267)	503,783,585	6,797,939,665
1-12	2038	26,275	51,020,054	696,619,469	214,154	19,122,008	(664,935,577)	491,882,381	6,624,890,779
1-12	2039	23,196	44,272,999	681,222,464	165,968	17,836,692	(654,952,125)	478,634,686	6,438,589,888
1-12	2040	20,357	38,126,874	662,431,772	123,600	16,499,301	(640,927,798)	464,782,489	6,248,420,252
1-12	2041	17,768	32,597,576	643,578,921	89,744	15,165,490	(626,236,580)	450,829,740	6,058,322,194
1-12	2042	15,423	27,679,101	621,043,792	65,926	13,872,303	(607,302,920)	436,916,183	5,869,001,798
1-12	2043	13,306	23,345,878	590,409,609	50,599	12,614,254	(579,728,585)	423,185,965	5,684,884,842
1-12	2044	11,408	19,554,733	553,712,071	38,684	11,375,177	(545,571,200)	410,158,308	5,515,314,566
1-12	2045	9,722	16,261,760	516,466,208	29,746	10,171,282	(510,405,475)	398,514,558	5,368,257,924
1-12	2046	8,240	13,431,100	481,537,489	22,303	9,033,336	(477,162,028)	388,656,051	5,246,508,499
1-12	2047	6,947	11,016,996	447,544,634	16,273	7,982,230	(444,526,141)	380,657,408	5,150,003,879
1-12	2048	5,823	8,976,708	411,035,519	11,797	7,024,536	(409,095,144)	374,538,729	5,080,016,468
1-12	2049	4,851	7,264,470	372,950,784	8,319	6,144,559	(371,839,192)	370,521,244	5,041,442,567
1-12	2050	4,013	5,832,973	336,181,383	5,547	5,334,424	(335,688,381)	368,979,890	5,038,583,266
1-12	2051	3,298	4,645,632	302,644,489	3,549	4,591,288	(302,593,694)	370,129,012	5,073,023,897
1-12	2052	2,693	3,667,610	273,047,609	2,359	3,920,408	(273,302,766)	374,007,927	5,144,438,130
1-12	2053	2,186	2,869,260	244,367,988	1,467	3,329,398	(244,829,593)	380,554,457	5,251,689,821
1-12	2054	1,761	2,224,294	215,513,378	833	2,808,250	(216,098,166)	389,768,752	5,396,628,980
1-12	2055	1,409	1,707,137	188,051,402	385	2,351,277	(188,695,928)	401,861,432	5,582,392,245
1-12	2056	1,119	1,296,084	163,059,490	89	1,954,339	(163,717,833)	417,019,302	5,810,715,619
1-12	2057	882	973,018	140,823,454	-	1,612,102	(141,462,538)	435,324,788	6,082,322,574
1-12	2058	691	722,275	120,870,550	-	1,320,246	(121,468,521)	456,818,246	6,397,678,282
1-12	2059	537	530,124	102,304,158	-	1,073,602	(102,847,635)	481,547,191	6,757,756,951
1-12	2060	415	388,031	85,550,540	-	866,175	(86,028,684)	509,618,787	7,164,528,102
1-12	2061	319	284,191	71,136,739	-	693,959	(71,546,507)	541,178,081	7,619,677,499
1-12	2062	244	206,586	58,917,815	-	553,018	(59,264,248)	576,327,429	8,124,458,422
1-12	2063	185	149,021	48,604,601	-	438,266	(48,893,847)	615,164,461	8,680,358,635
1-12	2064	140	106,510	39,973,348	-	345,251	(40,212,088)	657,813,099	9,289,277,888
1-12	2065	105	75,302	32,789,026	-	270,515	(32,984,239)	704,426,605	9,953,492,405
1-12	2066	78	52,671	26,788,038	-	210,732	(26,946,099)	755,186,434	10,675,694,600
1-12	2067	58	36,365	21,843,909	-	163,012	(21,970,555)	810,307,135	11,459,055,636
1-12	2068	42	24,648	17,664,406	-	125,456	(17,765,213)	870,035,485	12,307,120,565
1-12	2069	31	16,264	14,112,944	-	95,709	(14,192,389)	934,650,174	13,224,005,526
1-12	2070	22	10,367	11,167,184	-	72,138	(11,228,955)	1,004,471,338	14,214,284,474
1-6	2071	19	3,512	4,649,483	-	29,104	(4,675,075)	1,079,847,405	15,282,902,924
								570,028,056	15,848,255,905

Attachment B

Attachment B Summary

Attachment B(1) – Margin 23.14% and Funded Ratio 127%
“Base Case” Scenario, (i.e. Scenario #1)

Attachment B(2) – Margin 79.13% and Funded Ratio 270%
Investment Scenario #2

Attachment B(3) – Margin 47.72% and Funded Ratio 164%
Investment Scenario #3

Attachment B(4) – Margin 76.98% and Funded Ratio 241%
Investment Scenario #4

Attachment B(5) – Deficit (82.55%) and Funded Ratio 51%
Investment Scenario #5

Attachment B(6) – Deficit (1.61%) and Funded Ratio 98%
Investment Scenario #6

Attachment B(7) – Deficit (47.87%) and Funded Ratio 64%
Investment Scenario #7

Attachment B(1)

Base Case - Premium Rate Increases

California Public Employees Retirement System

Summary of Projected Values
All Plans

Starting Rate Before Adjustments:	Annual
Projection Years 1 - 10:	6.25%
Projection Years 11+:	7.60%
Discount Rate Adjustments:	Scenario 1

LTC Program Funded Ratio:	127.20%								
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	700,742,636	= Standard Program Definition							
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	23.14%	= Standard Program Definition							
Fund Balance @ End of Projection:	49,493,046,394	100.00%			100.00%				
Totals - 7/2011 thru 6/2071:	5,545,681,269	19,529,919,673	90,896,489	750,438,987	(14,825,573,880)	61,041,835,453			
As a % of Premiums:	100.00%	352.16%	1.64%	13.53%	-267.34%	1100.71%			
Totals - Present Values:	3,028,780,651	5,256,373,930	58,838,801	289,610,105	(2,576,042,185)	7,013,761,458			
As a % of PV(Premiums):	100.00%	173.55%	1.94%	9.56%	-85.05%	231.57%			

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	86,518,260	3,387,165	8,981,681	64,327,889	102,145,483	3,276,784,822
1-12	2012	147,709	319,059,141	189,064,343	6,895,002	18,148,098	104,951,698	219,154,237	3,443,258,194
1-12	2013	143,043	310,506,451	213,621,901	7,167,348	18,746,908	70,970,294	238,408,258	3,767,364,129
1-12	2014	138,324	301,716,982	235,804,779	7,218,240	19,383,443	39,310,519	256,670,452	4,076,742,681
1-12	2015	133,569	292,812,777	252,377,141	6,975,166	20,045,063	13,415,407	274,366,302	4,372,723,653
1-12	2016	128,772	283,662,504	271,464,517	6,685,429	20,730,126	(15,217,569)	291,470,022	4,660,505,363
1-12	2017	123,912	274,128,945	291,313,450	6,346,259	21,274,336	(44,805,099)	307,796,860	4,936,757,816
1-12	2018	118,985	264,230,361	309,404,757	5,893,779	21,763,059	(72,831,233)	323,339,651	5,199,749,577
1-12	2019	114,031	254,007,602	326,727,442	5,344,120	22,208,604	(100,272,564)	338,139,143	5,450,257,995
1-12	2020	109,076	243,443,552	343,459,398	4,812,904	22,630,437	(127,459,187)	352,116,421	5,688,124,575
1-12	2021	104,128	232,599,901	357,608,875	4,330,873	23,046,183	(152,386,030)	404,448,471	5,912,781,808
1-12	2022	99,172	221,541,618	373,880,074	3,887,360	23,412,613	(179,638,430)	462,466,712	6,164,844,249
1-12	2023	94,202	210,311,139	393,964,804	3,405,930	23,700,092	(210,759,687)	482,785,786	6,447,672,531
1-12	2024	89,249	199,001,068	414,108,559	2,918,933	23,905,755	(241,932,180)	502,265,290	6,719,698,630
1-12	2025	84,345	187,658,130	435,644,456	2,507,685	24,047,771	(274,541,782)	520,822,194	6,980,031,740
1-12	2026	79,502	176,331,779	459,722,190	2,180,288	24,141,270	(309,711,968)	538,211,128	7,226,312,152
1-12	2027	74,710	165,080,604	483,751,478	1,906,328	24,152,780	(344,729,982)	554,228,751	7,454,811,312
1-12	2028	69,968	153,956,756	504,626,657	1,631,506	24,045,434	(376,346,841)	568,915,249	7,664,310,081
1-12	2029	65,294	142,987,659	521,966,548	1,364,822	23,812,655	(404,156,366)	582,462,629	7,856,878,488
1-12	2030	60,718	132,203,311	539,004,799	1,135,750	23,470,506	(431,407,744)	594,973,543	8,035,184,752
1-12	2031	56,254	121,641,574	558,280,229	951,176	23,058,064	(460,647,895)	606,305,326	8,198,750,550
1-12	2032	51,885	111,327,765	577,770,778	815,223	22,660,699	(489,918,935)	616,227,053	8,344,407,981
1-12	2033	47,618	101,314,984	591,395,682	685,794	22,142,029	(512,908,521)	624,901,005	8,470,716,099
1-12	2034	43,471	91,646,420	599,727,318	556,720	21,476,888	(530,114,506)	632,711,914	8,582,708,583
1-12	2035	39,474	82,340,290	606,614,417	435,286	20,682,434	(545,391,847)	639,912,205	8,685,305,991
1-12	2036	35,657	73,479,687	614,058,683	337,397	19,792,076	(560,708,468)	646,498,471	8,779,826,349
1-12	2037	32,030	65,124,492	618,983,471	268,664	18,825,823	(572,953,466)	652,506,608	8,865,616,351
1-12	2038	28,595	57,322,422	615,518,913	214,154	17,781,528	(576,192,173)	658,344,433	8,945,169,493
1-12	2039	25,365	50,086,087	603,959,865	165,968	16,651,118	(570,690,864)	664,731,524	9,027,321,753
1-12	2040	22,364	43,432,755	589,474,789	123,600	15,462,962	(561,628,596)	672,192,687	9,121,362,413
1-12	2041	19,607	37,389,850	574,966,945	89,744	14,265,872	(551,932,712)	680,940,666	9,231,926,503
1-12	2042	17,091	31,962,611	557,053,936	65,926	13,093,630	(538,250,881)	691,207,641	9,360,934,457
1-12	2043	14,806	27,134,548	531,609,781	50,599	11,943,747	(516,469,579)	703,582,502	9,513,891,218
1-12	2044	12,745	22,874,351	500,375,134	38,684	10,805,046	(488,344,513)	718,819,416	9,701,004,140
1-12	2045	10,905	19,145,498	468,334,699	29,746	9,693,356	(458,912,303)	737,434,194	9,931,479,044
1-12	2046	9,279	15,914,975	438,114,684	22,303	8,636,619	(430,858,631)	759,657,017	10,210,000,935
1-12	2047	7,851	13,138,654	408,476,443	16,273	7,654,212	(403,008,274)	785,679,064	10,538,799,321
1-12	2048	6,605	10,774,947	376,289,127	11,797	6,753,998	(372,279,974)	815,886,389	10,921,470,111
1-12	2049	5,521	8,777,852	342,413,795	8,319	5,923,852	(339,568,113)	850,817,968	11,365,076,526
1-12	2050	4,584	7,098,066	309,513,714	5,547	5,157,676	(307,578,872)	890,879,863	11,876,326,380
1-12	2051	3,782	5,695,635	279,384,459	3,549	4,452,864	(278,145,237)	936,331,028	12,459,627,372
1-12	2052	3,100	4,533,153	252,715,908	2,359	3,814,271	(251,999,384)	987,350,815	13,117,813,163
1-12	2053	2,524	3,577,784	226,780,559	1,467	3,249,204	(226,453,446)	1,044,189,909	13,853,164,594
1-12	2054	2,042	2,800,123	200,575,200	833	2,749,026	(200,524,936)	1,107,308,721	14,670,901,057
1-12	2055	1,639	2,171,711	175,529,878	385	2,308,856	(175,667,409)	1,177,166,469	15,577,684,841
1-12	2056	1,306	1,667,816	152,646,166	89	1,925,041	(152,903,480)	1,254,147,902	16,579,183,902
1-12	2057	1,033	1,267,848	132,205,250	-	1,592,690	(132,530,092)	1,338,621,016	17,680,428,324
1-12	2058	811	953,971	113,791,169	-	1,307,841	(114,145,038)	1,430,983,826	18,886,519,248
1-12	2059	633	710,557	96,592,605	-	1,065,999	(96,948,047)	1,531,714,628	20,203,358,035
1-12	2060	491	528,268	81,007,025	-	861,999	(81,340,757)	1,641,354,517	21,638,124,616
1-12	2061	378	393,029	67,534,843	-	692,124	(67,833,938)	1,760,435,473	23,198,138,376
1-12	2062	289	290,229	56,060,128	-	552,562	(56,322,462)	1,889,516,725	24,890,739,910
1-12	2063	220	212,735	46,332,471	-	438,570	(46,558,306)	2,029,216,000	26,723,934,173
1-12	2064	166	154,715	38,160,569	-	345,995	(38,351,849)	2,180,215,031	28,706,591,867
1-12	2065	125	111,585	31,339,195	-	271,479	(31,499,089)	2,343,261,515	30,848,455,049
1-12	2066	93	79,863	25,632,598	-	211,790	(25,764,525)	2,519,176,995	33,160,217,475
1-12	2067	69	56,654	20,924,166	-	164,111	(21,031,622)	2,708,859,780	35,653,629,946
1-12	2068	51	39,726	16,942,992	-	126,538	(17,029,804)	2,913,288,641	38,341,458,104
1-12	2069	37	27,430	13,560,292	-	96,768	(13,629,631)	3,133,535,539	41,237,716,941
1-12	2070	27	18,592	10,752,486	-	73,166	(10,807,059)	3,370,757,766	44,357,622,849
1-6	2071	23	6,742	4,484,883	-	29,652	(4,507,793)	1,779,980,632	47,717,573,555
									49,493,046,394

Attachment B(2)

Intvestment Rate Increasing ½% for 10 Years

California Public Employees Retirement System

Summary of Projected Values
All Plans

Starting Rate Before Adjustments:	Annual
Projection Years 1 - 10:	6.25%
Projection Years 11 +:	7.60%
Discount Rate Adjustments:	Scenario 2

LTC Program Funded Ratio:	269.61%								
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	2,061,398,211	= Standard Program Definition							
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	79.13%	= Standard Program Definition							
Fund Balance @ End of Projection:	1,752,443,698,188	100.00%			100.00%				
Totals - 7/2011 thru 6/2071:	5,545,681,269	19,529,919,673	90,896,489	750,438,987	(14,825,573,880)	1,763,992,487,247			
As a % of Premiums:	100.00%	352.16%	1.64%	13.53%	-267.34%	31808.40%			
Totals - Present Values:	2,604,956,789	3,544,694,390	53,163,628	222,485,380	(1,215,386,610)	16,436,748,830			
As a % of PV(Premiums):	100.00%	136.07%	2.04%	8.54%	-46.66%	630.98%			

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	86,518,260	3,387,165	8,981,681	64,327,889	102,145,483	3,276,784,822
1-12	2012	147,709	319,059,141	189,064,343	6,895,002	18,148,098	104,951,698	227,972,349	3,443,258,194
1-12	2013	143,043	310,506,451	213,621,901	7,167,348	18,746,908	70,970,294	267,663,351	4,114,815,887
1-12	2014	138,324	301,716,982	235,804,779	7,218,240	19,383,443	39,310,519	310,868,785	4,464,995,191
1-12	2015	133,569	292,812,777	252,377,141	6,975,166	20,045,063	13,415,407	358,564,203	4,836,974,801
1-12	2016	128,772	283,662,504	271,464,517	6,685,429	20,730,126	(15,217,569)	411,378,237	5,233,135,470
1-12	2017	123,912	274,128,945	291,313,450	6,346,259	21,274,336	(44,805,099)	469,868,041	5,658,198,411
1-12	2018	118,985	264,230,361	309,404,757	5,893,779	21,763,059	(72,831,233)	534,986,332	6,120,353,510
1-12	2019	114,031	254,007,602	326,727,442	5,344,120	22,208,604	(100,272,564)	607,983,626	6,628,064,572
1-12	2020	109,076	243,443,552	343,459,398	4,812,904	22,630,437	(127,459,187)	690,197,887	7,190,803,272
1-12	2021	104,128	232,599,901	357,608,875	4,330,873	23,046,183	(152,386,030)	831,162,709	7,869,579,951
1-12	2022	99,172	221,541,618	373,880,074	3,887,360	23,412,613	(179,638,430)	981,601,920	8,671,543,441
1-12	2023	94,202	210,311,139	393,964,804	3,405,930	23,700,092	(210,759,687)	1,080,714,611	9,541,498,365
1-12	2024	89,249	199,001,068	414,108,559	2,918,933	23,905,755	(241,932,180)	1,188,363,421	10,487,929,606
1-12	2025	84,345	187,658,130	435,644,456	2,507,685	24,047,771	(274,541,782)	1,305,592,679	11,518,980,503
1-12	2026	79,502	176,331,779	459,722,190	2,180,288	24,141,270	(309,711,968)	1,433,319,512	12,642,588,047
1-12	2027	74,710	165,080,604	483,751,478	1,906,328	24,152,780	(344,729,982)	1,572,675,360	13,870,533,425
1-12	2028	69,968	153,956,756	504,626,657	1,631,506	24,045,434	(376,346,841)	1,725,363,322	15,219,549,906
1-12	2029	65,294	142,987,659	521,966,548	1,364,822	23,812,655	(404,156,366)	1,893,549,098	16,708,942,638
1-12	2030	60,718	132,203,311	539,004,799	1,135,750	23,470,506	(431,407,744)	2,079,500,706	18,357,035,600
1-12	2031	56,254	121,641,574	558,280,229	951,176	23,058,064	(460,647,895)	2,285,351,868	20,181,739,572
1-12	2032	51,885	111,327,765	577,770,778	815,223	22,660,699	(489,918,935)	2,513,374,926	22,205,195,564
1-12	2033	47,618	101,314,984	591,395,682	685,794	22,142,029	(512,908,521)	2,766,806,982	24,459,094,024
1-12	2034	43,471	91,646,420	599,727,318	556,720	21,476,888	(530,114,506)	3,049,644,952	26,978,624,470
1-12	2035	39,474	82,340,290	606,614,417	435,286	20,682,434	(545,391,847)	3,366,123,101	29,799,355,724
1-12	2036	35,657	73,479,687	614,058,683	337,397	19,792,076	(560,708,468)	3,720,552,322	32,959,199,577
1-12	2037	32,030	65,124,492	618,983,471	268,664	18,825,823	(572,953,466)	4,117,849,841	36,504,095,953
1-12	2038	28,595	57,322,422	615,518,913	214,154	17,781,528	(576,192,173)	4,564,163,143	40,492,066,922
1-12	2039	25,365	50,086,087	603,959,865	165,968	16,651,118	(570,690,864)	5,066,882,815	44,988,258,873
1-12	2040	22,364	43,432,755	589,474,789	123,600	15,462,962	(561,628,596)	5,633,919,424	50,060,549,700
1-12	2041	19,607	37,389,850	574,966,945	89,744	14,265,872	(551,932,712)	6,273,595,687	55,782,212,676
1-12	2042	17,091	31,962,611	557,053,936	65,926	13,093,630	(538,250,881)	6,995,285,355	62,239,247,150
1-12	2043	14,806	27,134,548	531,609,781	50,599	11,943,747	(516,469,579)	7,810,105,053	69,532,882,624
1-12	2044	12,745	22,874,351	500,375,134	38,684	10,805,046	(488,344,513)	8,730,774,764	77,775,312,875
1-12	2045	10,905	19,145,498	468,334,699	29,746	9,693,356	(458,912,303)	9,771,128,547	87,087,529,119
1-12	2046	9,279	15,914,975	438,114,684	22,303	8,636,619	(430,858,631)	10,946,203,878	97,602,874,367
1-12	2047	7,851	13,138,654	408,476,443	16,273	7,654,212	(403,008,274)	12,272,837,446	109,472,703,539
1-12	2048	6,605	10,774,947	376,289,127	11,797	6,753,998	(372,279,974)	13,770,285,412	122,870,708,977
1-12	2049	5,521	8,777,852	342,413,795	8,319	5,923,852	(339,568,113)	15,460,437,075	137,991,577,939
1-12	2050	4,584	7,098,066	309,513,714	5,547	5,157,676	(307,578,872)	17,367,652,336	155,051,651,403
1-12	2051	3,782	5,695,635	279,384,459	3,549	4,452,864	(278,145,237)	19,519,064,978	174,292,571,144
1-12	2052	3,100	4,533,153	252,715,908	2,359	3,814,271	(251,999,384)	21,945,062,541	195,985,634,301
1-12	2053	2,524	3,577,784	226,780,559	1,467	3,249,204	(226,453,446)	24,679,955,362	220,439,136,216
1-12	2054	2,042	2,800,123	200,575,200	833	2,749,026	(200,524,936)	27,762,693,869	248,001,305,149
1-12	2055	1,639	2,171,711	175,529,878	385	2,308,856	(175,667,409)	31,237,077,420	279,062,715,160
1-12	2056	1,306	1,667,816	152,646,166	89	1,925,041	(152,903,480)	35,152,242,532	314,062,054,213
1-12	2057	1,033	1,267,848	132,205,250	-	1,592,690	(132,530,092)	39,563,440,344	353,492,964,465
1-12	2058	811	953,971	113,791,169	-	1,307,841	(114,145,038)	44,532,886,699	397,911,706,125
1-12	2059	633	710,557	96,592,605	-	1,065,999	(96,948,047)	50,130,719,379	447,945,477,457
1-12	2060	491	528,268	81,007,025	-	861,999	(81,340,757)	56,435,957,979	504,300,094,680
1-12	2061	378	393,029	67,534,843	-	692,124	(67,833,938)	63,537,495,311	567,769,756,053
1-12	2062	289	290,229	56,060,128	-	552,562	(56,322,462)	71,535,402,530	639,248,836,121
1-12	2063	220	212,735	46,332,471	-	438,570	(46,558,306)	80,542,386,212	719,744,664,027
1-12	2064	166	154,715	38,160,569	-	345,995	(38,351,849)	90,685,382,271	810,391,694,449
1-12	2065	125	111,585	31,339,195	-	271,479	(31,499,089)	102,107,344,009	912,467,539,369
1-12	2066	93	79,863	25,632,598	-	211,790	(25,764,525)	114,969,265,036	1,027,411,039,880
1-12	2067	69	56,654	20,924,166	-	164,111	(21,031,622)	129,452,447,981	1,156,842,456,239
1-12	2068	51	39,726	16,942,992	-	126,538	(17,029,804)	145,761,059,731	1,302,586,486,167
1-12	2069	37	27,430	13,560,292	-	96,768	(13,629,631)	164,125,023,452	1,466,697,879,988
1-12	2070	27	18,592	10,752,486	-	73,166	(10,807,059)	184,803,239,074	1,651,490,312,002
1-6	2071	23	6,742	4,484,883	-	29,652	(4,507,793)	100,957,893,979	1,752,443,698,188

Attachment B(3)

Investment Rate Increasing 1% for 5 Years and then Decreasing 1% for 5 Years

California Public Employees Retirement System

Summary of Projected Values
All Plans

LTC Program Funded Ratio:	164.15%							
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	1,280,544,521	= Standard Program Definition						
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	47.72%	= Standard Program Definition						
Fund Balance @ End of Projection:	114,752,470,367	100.00%			100.00%			
Totals - 7/2011 thru 6/2071:	5,545,681,269	19,529,919,673	90,896,489	750,438,987	(14,825,573,880)	126,301,259,426		
As a % of Premiums:	100.00%	352.16%	1.64%	13.53%	-267.34%	2277.47%		
Totals - Present Values:	2,683,196,068	4,378,965,274	53,002,718	247,468,376	(1,996,240,300)	9,454,134,446		
As a % of PV(Premiums):	100.00%	163.20%	1.98%	9.22%	-74.40%	352.35%		

Starting Rate Before Adjustments:	Annual
Projection Years 1 - 10:	6.25%
Projection Years 11+:	7.60%
Discount Rate Adjustments:	Scenario 3

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	86,518,260	3,387,165	8,981,681	64,327,889	102,145,483	3,276,784,822
1-12	2012	147,709	319,059,141	189,064,343	6,895,002	18,148,098	104,951,698	236,769,785	3,443,258,194
1-12	2013	143,043	310,506,451	213,621,901	7,167,348	18,746,908	70,970,294	297,026,122	3,784,979,677
1-12	2014	138,324	301,716,982	235,804,779	7,218,240	19,383,443	39,310,519	366,001,370	4,152,976,093
1-12	2015	133,569	292,812,777	252,377,141	6,975,166	20,045,063	13,415,407	446,064,183	4,558,287,983
1-12	2016	128,772	283,662,504	271,464,517	6,685,429	20,730,126	(15,217,569)	539,664,691	5,017,767,573
1-12	2017	123,912	274,128,945	291,313,450	6,346,259	21,274,336	(44,805,099)	594,503,095	5,542,214,695
1-12	2018	118,985	264,230,361	309,404,757	5,893,779	21,763,059	(72,831,233)	591,431,375	6,091,912,691
1-12	2019	114,031	254,007,602	326,727,442	5,344,120	22,208,604	(100,272,564)	574,977,414	6,610,512,833
1-12	2020	109,076	243,443,552	343,459,398	4,812,904	22,630,437	(127,459,187)	544,981,507	7,085,217,683
1-12	2021	104,128	232,599,901	357,608,875	4,330,873	23,046,183	(152,386,030)	552,034,253	7,502,740,003
1-12	2022	99,172	221,541,618	373,880,074	3,887,360	23,412,613	(179,638,430)	594,520,054	7,902,388,226
1-12	2023	94,202	210,311,139	393,964,804	3,405,930	23,700,092	(210,759,687)	624,875,182	8,317,269,850
1-12	2024	89,249	199,001,068	414,108,559	2,918,933	23,905,755	(241,932,180)	655,153,481	8,731,385,345
1-12	2025	84,345	187,658,130	435,644,456	2,507,685	24,047,771	(274,541,782)	685,329,887	9,144,606,645
1-12	2026	79,502	176,331,779	459,722,190	2,180,288	24,141,270	(309,711,968)	715,221,406	9,552,394,750
1-12	2027	74,710	165,080,604	483,751,478	1,906,328	24,152,780	(344,729,982)	744,691,809	10,000,904,188
1-12	2028	69,968	153,956,756	504,626,657	1,631,506	24,045,434	(376,346,841)	773,853,500	10,360,866,015
1-12	2029	65,294	142,987,659	521,966,548	1,364,822	23,812,655	(404,156,366)	802,976,187	10,758,372,673
1-12	2030	60,718	132,203,311	539,004,799	1,135,750	23,470,506	(431,407,744)	832,246,131	11,157,192,495
1-12	2031	56,254	121,641,574	558,280,229	951,176	23,058,064	(460,647,895)	861,610,631	11,558,930,882
1-12	2032	51,885	111,327,765	577,770,778	815,223	22,660,699	(489,918,935)	890,935,562	11,958,993,618
1-12	2033	47,618	101,314,984	591,395,682	685,794	22,142,029	(512,908,521)	920,487,360	12,360,010,244
1-12	2034	43,471	91,646,420	599,727,318	556,720	21,476,888	(530,114,506)	950,762,832	12,767,589,084
1-12	2035	39,474	82,340,290	606,614,417	435,286	20,682,434	(545,391,847)	982,134,992	13,188,237,410
1-12	2036	35,657	73,479,687	614,058,683	337,397	19,792,076	(560,708,468)	1,014,730,190	13,624,980,555
1-12	2037	32,030	65,124,492	618,983,471	268,664	18,825,823	(572,953,466)	1,048,723,938	14,079,002,277
1-12	2038	28,595	57,322,422	615,518,913	214,154	17,781,528	(576,192,173)	1,084,674,281	14,554,772,749
1-12	2039	25,365	50,086,087	603,959,865	165,968	16,651,118	(570,690,864)	1,123,462,440	15,063,254,857
1-12	2040	22,364	43,432,755	589,474,789	123,600	15,462,962	(561,628,596)	1,165,787,152	15,616,026,433
1-12	2041	19,707	37,389,850	574,966,945	89,744	14,265,872	(551,932,712)	1,212,048,311	16,220,184,988
1-12	2042	17,091	31,962,611	557,053,936	65,926	13,093,630	(538,250,881)	1,262,679,467	16,880,300,587
1-12	2043	14,806	27,134,548	531,609,781	50,599	11,943,747	(516,469,579)	1,318,486,186	17,604,729,173
1-12	2044	12,745	22,874,351	500,375,134	38,684	10,805,046	(488,344,513)	1,380,455,781	18,006,745,781
1-12	2045	10,905	19,145,498	468,334,699	29,746	9,693,356	(458,912,303)	1,449,354,922	19,298,857,049
1-12	2046	9,279	15,914,975	438,114,684	22,303	8,636,619	(430,858,631)	1,449,354,922	20,289,299,668
1-12	2047	7,851	13,138,654	408,476,443	16,273	7,654,212	(403,008,274)	1,525,683,720	21,384,124,758
1-12	2048	6,605	10,774,947	376,289,127	11,797	6,753,998	(372,279,974)	1,609,923,797	22,591,040,281
1-12	2049	5,521	8,777,852	342,413,795	8,319	5,923,852	(339,568,113)	1,702,773,722	23,921,534,029
1-12	2050	4,584	7,098,066	309,513,714	5,547	5,157,676	(307,578,872)	1,805,108,739	25,387,074,654
1-12	2051	3,782	5,695,635	279,384,459	3,549	4,452,864	(278,145,237)	1,917,696,731	26,997,192,514
1-12	2052	3,100	4,533,153	252,715,908	2,359	3,814,271	(251,999,384)	2,041,185,979	28,760,233,256
1-12	2053	2,524	3,577,784	226,780,559	1,467	3,249,204	(226,453,446)	2,176,174,742	30,684,408,614
1-12	2054	2,042	2,800,123	200,575,200	833	2,749,026	(200,524,936)	2,323,364,455	32,781,319,622
1-12	2055	1,639	2,171,711	175,529,878	385	2,308,856	(175,667,409)	2,483,700,532	35,064,495,218
1-12	2056	1,306	1,667,816	152,646,166	89	1,925,041	(152,903,480)	2,658,164,058	37,546,991,867
1-12	2057	1,033	1,267,848	132,205,250	-	1,592,690	(132,530,092)	2,847,701,307	40,241,789,694
1-12	2058	811	953,971	113,791,169	-	1,307,841	(114,145,038)	3,053,284,480	43,162,544,082
1-12	2059	633	710,557	96,592,605	-	1,065,999	(96,948,047)	3,275,961,714	46,324,360,758
1-12	2060	491	528,268	81,007,025	-	861,999	(81,340,757)	3,516,910,835	49,744,323,545
1-12	2061	378	393,029	67,534,843	-	692,124	(67,833,938)	3,777,425,635	53,440,408,424
1-12	2062	289	290,229	56,060,128	-	552,562	(56,322,462)	4,058,847,996	57,431,422,482
1-12	2063	220	212,735	46,332,471	-	438,570	(46,558,306)	4,362,608,600	61,737,708,620
1-12	2064	166	154,715	38,160,569	-	345,995	(38,351,849)	4,690,262,858	66,381,413,172
1-12	2065	125	111,585	31,339,195	-	271,479	(31,499,089)	5,043,501,450	71,386,562,773
1-12	2066	93	79,863	25,632,598	-	211,790	(25,764,525)	5,424,157,702	76,779,221,386
1-12	2067	69	56,654	20,924,166	-	164,111	(21,031,622)	5,834,221,293	82,587,678,154
1-12	2068	51	39,726	16,942,992	-	126,538	(17,029,804)	6,275,847,444	88,842,493,976
1-12	2069	37	27,430	13,560,292	-	96,768	(13,629,631)	6,751,367,367	95,576,831,539
1-12	2070	27	18,592	10,752,486	-	73,166	(10,807,059)	7,263,308,248	102,826,510,157
1-6	2071	23	6,742	4,484,883	-	29,652	(4,507,793)	7,814,393,201	110,630,096,299
								4,126,881,861	114,752,470,367

Attachment B(4)

Investment Rate Increased 3%

California Public Employees Retirement System

Summary of Projected Values
All Plans

		Starting Rate Before Adjustments:		Annual	
LTC Program Funded Ratio:		240.50%		6.25%	
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):		1,914,299,312 = Standard Program Definition		7.60%	
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):		76.98% = Standard Program Definition		Scenario 4	
Fund Balance @ End of Projection:		712,311,185,078 100.00%		13052.68%	
Totals - 7/2011 thru 6/2071:		5,545,681,269 100.00%			
As a % of Premiums:					
Totals - Present Values:		2,486,604,222 3,581,567,826 50,175,383 217,346,523 (1,362,485,510) 14,186,558,170		570.52%	
As a % of PV(Premiums):		100.00% 144.03% 2.02% 8.74% -54.79%			

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	86,518,260	3,387,165	8,981,681	64,327,889	150,103,640	3,276,784,822
1-12	2012	147,709	319,059,141	189,064,343	6,895,002	18,148,098	104,951,698	328,761,576	3,491,216,351
1-12	2013	143,043	310,506,451	213,621,901	7,167,348	18,746,908	70,970,294	367,403,434	3,924,929,625
1-12	2014	138,324	301,716,982	235,804,779	7,218,240	19,383,443	39,310,519	406,370,287	4,363,303,353
1-12	2015	133,569	292,812,777	252,377,141	6,975,166	20,045,063	13,415,407	446,412,882	4,808,984,159
1-12	2016	128,772	283,662,504	271,464,517	6,685,429	20,730,126	(15,217,569)	487,646,791	5,268,812,449
1-12	2017	123,912	274,128,945	291,313,450	6,346,259	21,274,336	(44,805,099)	529,963,178	5,741,241,671
1-12	2018	118,985	264,230,361	309,404,757	5,893,779	21,763,059	(72,831,233)	573,522,873	6,226,399,750
1-12	2019	114,031	254,007,602	326,727,442	5,344,120	22,208,604	(100,272,564)	618,573,905	6,727,091,390
1-12	2020	109,076	243,443,552	343,459,398	4,812,904	22,630,437	(127,459,187)	665,206,315	7,245,392,732
1-12	2021	104,128	232,599,901	357,608,875	4,330,873	23,046,183	(152,386,030)	765,457,584	7,783,139,859
1-12	2022	99,172	221,541,618	373,880,074	3,887,360	23,412,613	(179,638,430)	881,587,120	8,396,211,413
1-12	2023	94,202	210,311,139	393,964,804	3,405,930	23,700,092	(210,759,687)	954,361,168	9,098,160,104
1-12	2024	89,249	199,001,068	414,108,559	2,918,933	23,905,755	(241,932,180)	1,031,524,485	9,841,761,585
1-12	2025	84,345	187,658,130	435,644,456	2,507,685	24,047,771	(274,541,782)	1,113,515,853	10,631,353,889
1-12	2026	79,502	176,331,779	459,722,190	2,180,288	24,141,270	(309,711,968)	1,200,602,889	11,470,327,960
1-12	2027	74,710	165,080,604	483,751,478	1,906,328	24,152,780	(344,729,982)	1,293,165,270	12,361,218,881
1-12	2028	69,968	153,956,756	504,626,657	1,631,506	24,045,434	(376,346,841)	1,391,983,992	13,309,654,169
1-12	2029	65,294	142,987,659	521,966,548	1,364,822	23,812,655	(404,156,366)	1,498,131,027	14,325,291,320
1-12	2030	60,718	132,203,311	539,004,799	1,135,750	23,470,506	(431,407,744)	1,612,647,898	15,419,265,980
1-12	2031	56,254	121,641,574	558,280,229	951,176	23,058,064	(460,647,895)	1,736,333,282	16,600,506,134
1-12	2032	51,885	111,327,765	577,770,778	815,223	22,660,699	(489,918,935)	1,869,961,583	17,876,191,521
1-12	2033	47,618	101,314,984	591,395,682	685,794	22,142,029	(512,908,521)	2,014,960,888	18,599,616,583
1-12	2034	43,471	91,646,420	599,727,318	556,720	21,476,888	(530,114,506)	2,173,205,549	20,758,286,536
1-12	2035	39,474	82,340,290	606,614,417	435,286	20,682,434	(545,391,847)	2,346,544,085	22,401,377,579
1-12	2036	35,657	73,479,687	614,058,683	337,397	19,792,076	(560,708,468)	2,536,636,896	24,202,529,817
1-12	2037	32,030	65,124,492	618,983,471	268,664	18,825,823	(572,953,466)	2,745,374,332	26,178,458,245
1-12	2038	28,595	57,322,422	615,518,913	214,154	17,781,528	(576,192,173)	2,975,361,332	28,350,879,111
1-12	2039	25,365	50,086,087	603,959,865	165,968	16,651,118	(570,690,864)	3,229,872,104	30,750,048,269
1-12	2040	22,364	43,432,755	589,474,789	123,600	15,462,962	(561,628,596)	3,512,181,185	33,409,229,509
1-12	2041	19,607	37,389,850	574,966,945	89,744	14,265,872	(551,932,712)	3,825,418,786	36,359,782,099
1-12	2042	17,091	31,962,611	557,053,936	65,926	13,093,630	(538,250,881)	4,173,049,920	39,633,268,173
1-12	2043	14,806	27,134,548	531,609,781	50,599	11,943,747	(516,469,579)	4,559,379,623	43,268,067,212
1-12	2044	12,745	22,874,351	500,375,134	38,684	10,805,046	(488,344,513)	4,989,338,813	47,310,977,255
1-12	2045	10,905	19,145,498	468,334,699	29,746	9,693,356	(458,912,303)	5,467,969,488	51,811,971,555
1-12	2046	9,279	15,914,975	438,114,684	22,303	8,636,619	(430,858,631)	6,000,394,466	56,821,028,740
1-12	2047	7,851	13,138,654	408,476,443	16,273	7,654,212	(403,008,274)	6,592,199,844	62,390,564,575
1-12	2048	6,605	10,774,947	376,289,127	11,797	6,753,998	(372,279,974)	7,249,814,901	68,579,756,145
1-12	2049	5,521	8,777,852	342,413,795	8,319	5,923,852	(339,568,113)	7,980,523,791	75,457,291,072
1-12	2050	4,584	7,098,066	309,513,714	5,547	5,157,676	(307,578,872)	8,792,140,691	83,098,246,749
1-12	2051	3,782	5,695,635	279,384,459	3,549	4,452,864	(278,145,237)	9,693,059,654	91,582,808,569
1-12	2052	3,100	4,533,153	252,715,908	2,359	3,814,271	(251,999,384)	10,692,425,775	100,997,722,986
1-12	2053	2,524	3,577,784	226,780,559	1,467	3,249,204	(226,453,446)	11,800,433,139	111,438,149,376
1-12	2054	2,042	2,800,123	200,575,200	833	2,749,026	(200,524,936)	13,028,622,796	123,012,129,069
1-12	2055	1,639	2,171,711	175,529,878	385	2,308,856	(175,667,409)	14,389,709,267	135,840,226,929
1-12	2056	1,306	1,667,816	152,646,166	89	1,925,041	(152,903,480)	15,897,602,153	150,054,268,788
1-12	2057	1,033	1,267,848	132,205,250	-	1,592,690	(132,530,092)	17,567,621,157	165,798,967,461
1-12	2058	811	953,971	113,791,169	-	1,307,841	(114,145,038)	19,416,712,556	183,234,058,526
1-12	2059	633	710,557	96,592,605	-	1,065,999	(96,948,047)	21,463,688,611	202,536,626,043
1-12	2060	491	528,268	81,007,025	-	861,999	(81,340,757)	23,729,392,880	223,903,366,607
1-12	2061	378	393,029	67,534,843	-	692,124	(67,833,938)	26,236,808,286	247,551,418,730
1-12	2062	289	290,229	56,060,128	-	552,562	(56,322,462)	29,011,335,406	273,720,393,078
1-12	2063	220	212,735	46,332,471	-	438,570	(46,558,306)	32,081,089,558	302,675,406,022
1-12	2064	166	154,715	38,160,569	-	345,995	(38,351,849)	35,477,190,087	334,709,937,274
1-12	2065	125	111,585	31,339,195	-	271,479	(31,499,089)	39,234,074,730	370,148,775,512
1-12	2066	93	79,863	25,632,598	-	211,790	(25,764,525)	43,389,855,349	409,351,351,153
1-12	2067	69	56,654	20,924,166	-	164,111	(21,031,622)	47,986,703,683	452,715,441,978
1-12	2068	51	39,726	16,942,992	-	126,538	(17,029,804)	53,071,278,634	500,681,114,038
1-12	2069	37	27,430	13,560,292	-	96,768	(13,629,631)	58,695,211,217	553,735,362,869
1-12	2070	27	18,592	10,752,486	-	73,166	(10,807,059)	64,915,610,737	612,416,944,454
1-6	2071	23	6,742	4,484,883	-	29,652	(4,507,793)	34,993,944,739	677,321,748,132

Attachment B(5)

Intvestment Rate Decreasing ½% for 10 Years

California Public Employees Retirement System

Summary of Projected Values
All Plans

Starting Rate Before Adjustments:	Annual
Projection Years 1 - 10:	6.25%
Projection Years 11+:	7.60%
Discount Rate Adjustments:	Scenario 5

LTC Program Funded Ratio:	51.31%								
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	(3,109,428,228)	= Standard Program Definition							
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	-82.55%	= Standard Program Definition							
Fund Balance @ End of Projection:	(16,629,196,864)	100.00%			100.00%				
Totals - 7/2011 thru 6/2071:	5,545,681,269	19,529,919,673	90,896,489	750,438,987	(14,825,573,880)	(5,080,407,805)			
As a % of Premiums:	100.00%	352.16%	1.64%	13.53%	-267.34%	-91.61%			
Totals - Present Values:	3,766,785,342	9,652,932,984	67,188,529	432,876,878	(6,386,213,049)	5,753,951			
As a % of PV(Premiums):	100.00%	256.26%	1.78%	11.49%	-169.54%	0.15%			

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	86,518,260	3,387,165	8,981,681	64,327,889	102,145,483	3,276,784,822
1-12	2012	147,709	319,059,141	189,064,343	6,895,002	18,148,098	104,951,698	210,315,302	3,443,258,194
1-12	2013	143,043	310,506,451	213,621,901	7,167,348	18,746,908	70,970,294	209,260,973	3,758,525,194
1-12	2014	138,324	301,716,982	235,804,779	7,218,240	19,383,443	39,310,519	203,402,908	4,038,756,462
1-12	2015	133,569	292,812,777	252,377,141	6,975,166	20,045,063	13,415,407	193,417,039	4,281,469,889
1-12	2016	128,772	283,662,504	271,464,517	6,685,429	20,730,126	(15,217,569)	179,647,343	4,488,302,336
1-12	2017	123,912	274,128,945	291,313,450	6,346,259	21,274,336	(44,805,099)	162,435,346	4,652,732,110
1-12	2018	118,985	264,230,361	309,404,757	5,893,779	21,763,059	(72,831,233)	142,346,126	4,770,362,357
1-12	2019	114,031	254,007,602	326,727,442	5,344,120	22,208,604	(100,272,564)	120,035,726	4,839,877,250
1-12	2020	109,076	243,443,552	343,459,398	4,812,904	22,630,437	(127,459,187)	96,162,908	4,859,640,412
1-12	2021	104,128	232,599,901	357,608,875	4,330,873	23,046,183	(152,386,030)	103,345,269	4,828,344,133
1-12	2022	99,172	221,541,618	373,880,074	3,887,360	23,412,613	(179,638,430)	102,170,039	4,779,303,373
1-12	2023	94,202	210,311,139	393,964,804	3,405,930	23,700,092	(210,759,687)	120,270,394	4,721,834,982
1-12	2024	89,249	199,001,068	414,108,559	2,918,933	23,905,755	(241,932,180)	117,505,833	4,631,345,689
1-12	2025	84,345	187,658,130	435,644,456	2,507,685	24,047,771	(274,541,782)	113,847,149	4,506,919,341
1-12	2026	79,502	176,331,779	459,722,190	2,180,288	24,141,270	(309,711,968)	109,211,026	4,346,224,709
1-12	2027	74,710	165,080,604	483,751,478	1,906,328	24,152,780	(344,729,982)	103,533,134	4,145,723,766
1-12	2028	69,968	153,956,756	504,626,657	1,631,506	24,045,434	(376,346,841)	96,836,129	3,904,526,918
1-12	2029	65,294	142,987,659	521,966,548	1,364,822	23,812,655	(404,156,366)	89,193,851	3,625,016,206
1-12	2030	60,718	132,203,311	539,004,799	1,135,750	23,470,506	(431,407,744)	80,646,115	3,310,053,691
1-12	2031	56,254	121,641,574	558,280,229	951,176	23,058,064	(460,647,895)	71,147,272	2,959,292,062
1-12	2032	51,885	111,327,765	577,770,778	815,223	22,660,699	(489,918,935)	60,624,408	2,569,791,439
1-12	2033	47,618	101,314,984	591,395,682	685,794	22,142,029	(512,908,521)	49,143,783	2,140,496,912
1-12	2034	43,471	91,646,420	599,727,318	556,720	21,476,888	(530,114,506)	36,844,486	1,676,732,175
1-12	2035	39,474	82,340,290	606,614,417	435,286	20,682,434	(545,391,847)	23,813,620	1,183,462,155
1-12	2036	35,657	73,479,687	614,058,683	337,397	19,792,076	(560,708,468)	10,046,673	661,883,928
1-12	2037	32,030	65,124,492	618,983,471	268,664	18,825,823	(572,953,466)	(4,446,928)	111,222,133
1-12	2038	28,595	57,322,422	615,518,913	214,154	17,781,528	(576,192,173)	(19,530,903)	(466,178,261)
1-12	2039	25,365	50,086,087	603,959,865	165,968	16,651,118	(570,690,864)	(34,970,039)	(1,061,901,383)
1-12	2040	22,364	43,432,755	589,474,789	123,600	15,462,962	(561,628,596)	(50,608,852)	(1,667,562,241)
1-12	2041	19,607	37,389,850	574,966,945	89,744	14,265,872	(551,932,712)	(66,407,982)	(2,279,799,690)
1-12	2042	17,091	31,962,611	557,053,936	65,926	13,093,630	(538,250,881)	(82,325,269)	(2,898,140,383)
1-12	2043	14,806	27,134,548	531,609,781	50,599	11,943,747	(516,469,579)	(98,201,388)	(3,518,716,532)
1-12	2044	12,745	22,874,351	500,375,134	38,684	10,805,046	(488,344,513)	(113,832,257)	(4,133,387,500)
1-12	2045	10,905	19,145,498	468,334,699	29,746	9,693,356	(458,912,303)	(129,109,975)	(4,735,564,270)
1-12	2046	9,279	15,914,975	438,114,684	22,303	8,636,619	(430,858,631)	(144,034,712)	(5,323,586,548)
1-12	2047	7,851	13,138,654	408,476,443	16,273	7,654,212	(403,008,274)	(158,625,573)	(5,898,479,890)
1-12	2048	6,605	10,774,947	376,289,127	11,797	6,753,998	(372,279,974)	(172,840,261)	(6,460,113,736)
1-12	2049	5,521	8,777,852	342,413,795	8,319	5,923,852	(339,568,113)	(186,593,525)	(7,005,233,971)
1-12	2050	4,584	7,098,066	309,513,714	5,547	5,157,676	(307,578,872)	(199,857,563)	(7,531,395,610)
1-12	2051	3,782	5,695,635	279,384,459	3,549	4,452,864	(278,145,237)	(212,664,640)	(8,038,832,045)
1-12	2052	3,100	4,533,153	252,715,908	2,359	3,814,271	(251,999,384)	(225,081,719)	(8,529,641,921)
1-12	2053	2,524	3,577,784	226,780,559	1,467	3,249,204	(226,453,446)	(237,157,397)	(9,006,723,025)
1-12	2054	2,042	2,800,123	200,575,200	833	2,749,026	(200,524,936)	(248,876,493)	(9,470,333,868)
1-12	2055	1,639	2,171,711	175,529,878	385	2,308,856	(175,667,409)	(260,236,060)	(9,919,735,297)
1-12	2056	1,306	1,667,816	152,646,166	89	1,925,041	(152,903,480)	(271,270,442)	(10,355,638,765)
1-12	2057	1,033	1,267,848	132,205,250	-	1,592,690	(132,530,092)	(282,030,537)	(10,779,812,687)
1-12	2058	811	953,971	113,791,169	-	1,307,841	(114,145,038)	(292,567,793)	(11,194,373,315)
1-12	2059	633	710,557	96,592,605	-	1,065,999	(96,948,047)	(302,917,836)	(11,601,086,147)
1-12	2060	491	528,268	81,007,025	-	861,999	(81,340,757)	(313,108,299)	(12,000,952,030)
1-12	2061	378	393,029	67,534,843	-	692,124	(67,833,938)	(323,184,728)	(12,395,401,085)
1-12	2062	289	290,229	56,060,128	-	552,562	(56,322,462)	(333,198,299)	(12,786,419,751)
1-12	2063	220	212,735	46,332,471	-	438,570	(46,558,306)	(343,196,033)	(13,175,940,512)
1-12	2064	166	154,715	38,160,569	-	345,995	(38,351,849)	(353,220,343)	(13,565,694,850)
1-12	2065	125	111,585	31,339,195	-	271,479	(31,499,089)	(363,309,900)	(13,957,267,042)
1-12	2066	93	79,863	25,632,598	-	211,790	(25,764,525)	(373,498,559)	(14,352,076,031)
1-12	2067	69	56,654	20,924,166	-	164,111	(21,031,622)	(383,816,160)	(14,751,339,115)
1-12	2068	51	39,726	16,942,992	-	126,538	(17,029,804)	(394,289,136)	(15,156,186,897)
1-12	2069	37	27,430	13,560,292	-	96,768	(13,629,631)	(404,938,187)	(15,567,505,836)
1-12	2070	27	18,592	10,752,486	-	73,166	(10,807,059)	(415,783,242)	(15,986,073,654)
1-6	2071	23	6,742	4,484,883	-	29,652	(4,507,793)	(212,025,115)	(16,412,663,955)
									(16,629,196,864)

Attachment B(6)

Investment Rate Decreasing 1% for 5 Years and then Increasing 1% for 5 Years

California Public Employees Retirement System

Summary of Projected Values

All Plans

Starting Rate Before Adjustments:	Annual
Projection Years 1 - 10:	6.25%
Projection Years 11+:	7.60%
Discount Rate Adjustments:	Scenario 6

LTC Program Funded Ratio:	98.33%								
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	(55,790,274)	= Standard Program Definition							
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	-1.61%	= Standard Program Definition							
Fund Balance @ End of Projection:	(3,697,803,896)	100.00%			100.00%				
Totals - 7/2011 thru 6/2071:	5,545,681,269	19,529,919,673	90,896,489	750,438,987	(14,825,573,880)	7,850,985,162			
As a % of Premiums:	100.00%	352.16%	1.64%	13.53%	-267.34%	141.57%			
Totals - Present Values:	3,465,418,230	6,388,297,900	66,118,721	343,576,705	(3,332,575,096)	4,050,571,390			
As a % of PV(Premiums):	100.00%	184.34%	1.91%	9.91%	-96.17%	116.89%			

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	86,518,260	3,387,165	8,981,681	64,327,889	102,145,483	3,276,784,822
1-12	2012	147,709	319,059,141	189,064,343	6,895,002	18,148,098	104,951,698	201,455,397	3,443,258,194
1-12	2013	143,043	310,506,451	213,621,901	7,167,348	18,746,908	70,970,294	180,221,623	3,749,665,289
1-12	2014	138,324	301,716,982	235,804,779	7,218,240	19,383,443	39,310,519	151,062,677	4,000,857,206
1-12	2015	133,569	292,812,777	252,377,141	6,975,166	20,045,063	13,415,407	115,663,199	4,191,230,402
1-12	2016	128,772	283,662,504	271,464,517	6,685,429	20,730,126	(15,217,569)	75,622,588	4,320,309,009
1-12	2017	123,912	274,128,945	291,313,450	6,346,259	21,274,336	(44,805,099)	76,340,951	4,380,714,028
1-12	2018	118,985	264,230,361	309,404,757	5,893,779	21,763,059	(72,831,233)	120,465,127	4,412,249,880
1-12	2019	114,031	254,007,602	326,727,442	5,344,120	22,208,604	(100,272,564)	165,561,531	4,459,883,774
1-12	2020	109,076	243,443,552	343,459,398	4,812,904	22,630,437	(127,459,187)	212,152,736	4,525,172,742
1-12	2021	104,128	232,599,901	357,608,875	4,330,873	23,046,183	(152,386,030)	291,147,971	4,609,866,290
1-12	2022	99,172	221,541,618	373,880,074	3,887,360	23,412,613	(179,638,430)	354,834,294	4,748,628,232
1-12	2023	94,202	210,311,139	393,964,804	3,405,930	23,700,092	(210,759,687)	366,973,304	4,923,824,096
1-12	2024	89,249	199,001,068	414,108,559	2,918,933	23,905,755	(241,932,180)	377,651,061	5,080,037,714
1-12	2025	84,345	187,658,130	435,644,456	2,507,685	24,047,771	(274,541,782)	386,737,283	5,215,756,594
1-12	2026	79,502	176,331,779	459,722,190	2,180,288	24,141,270	(309,711,968)	393,935,764	5,327,952,096
1-12	2027	74,710	165,080,604	483,751,478	1,906,328	24,152,780	(344,729,982)	398,988,459	5,412,175,891
1-12	2028	69,968	153,956,756	504,626,657	1,631,506	24,045,434	(376,346,841)	401,876,694	5,466,434,368
1-12	2029	65,294	142,987,659	521,966,548	1,364,822	23,812,655	(404,156,366)	402,729,145	5,491,964,221
1-12	2030	60,718	132,203,311	539,004,799	1,135,750	23,470,506	(431,407,744)	401,580,314	5,490,537,000
1-12	2031	56,254	121,641,574	558,280,229	951,176	23,058,064	(460,647,895)	398,214,211	5,460,709,570
1-12	2032	51,885	111,327,765	577,770,778	815,223	22,660,699	(489,918,935)	392,321,014	5,398,275,886
1-12	2033	47,618	101,314,984	591,395,682	685,794	22,142,029	(512,908,521)	383,978,107	5,300,677,965
1-12	2034	43,471	91,646,420	599,727,318	556,720	21,476,888	(530,114,506)	373,478,875	5,171,747,551
1-12	2035	39,474	82,340,290	606,614,417	435,286	20,682,434	(545,391,847)	360,977,455	5,015,111,920
1-12	2036	35,657	73,479,687	614,058,683	337,397	19,792,076	(560,708,468)	346,364,680	4,830,697,528
1-12	2037	32,030	65,124,492	618,983,471	268,664	18,825,823	(572,953,466)	329,562,649	4,616,353,740
1-12	2038	28,595	57,322,422	615,518,913	214,154	17,781,528	(576,192,173)	310,856,734	4,372,962,924
1-12	2039	25,365	50,086,087	603,959,865	165,968	16,651,118	(570,690,864)	290,834,759	4,107,627,485
1-12	2040	22,364	43,432,755	589,474,789	123,600	15,462,962	(561,628,596)	269,879,768	3,827,771,380
1-12	2041	19,607	37,389,850	574,966,945	89,744	14,265,872	(551,932,712)	248,051,965	3,536,022,552
1-12	2042	17,091	31,962,611	557,053,936	65,926	13,093,630	(538,250,881)	225,419,400	3,232,141,806
1-12	2043	14,806	27,134,548	531,609,781	50,599	11,943,747	(516,469,579)	202,394,354	2,919,310,325
1-12	2044	12,745	22,874,351	500,375,134	38,684	10,805,046	(488,344,513)	179,540,969	2,605,235,100
1-12	2045	10,905	19,145,498	468,334,699	29,746	9,693,356	(458,912,303)	157,170,584	2,296,431,556
1-12	2046	9,279	15,914,975	438,114,684	22,303	8,636,619	(430,858,631)	135,293,373	1,994,689,837
1-12	2047	7,851	13,138,654	408,476,443	16,273	7,654,212	(403,008,274)	113,863,784	1,699,124,580
1-12	2048	6,605	10,774,947	376,289,127	11,797	6,753,998	(372,279,974)	93,013,147	1,409,980,090
1-12	2049	5,521	8,777,852	342,413,795	8,319	5,923,852	(339,568,113)	73,006,360	1,130,713,263
1-12	2050	4,584	7,098,066	309,513,714	5,547	5,157,676	(307,578,872)	53,954,573	864,151,510
1-12	2051	3,782	5,695,635	279,384,459	3,549	4,452,864	(278,145,237)	35,799,416	610,527,211
1-12	2052	3,100	4,533,153	252,715,908	2,359	3,814,271	(251,999,384)	18,378,800	368,181,390
1-12	2053	2,524	3,577,784	226,780,559	1,467	3,249,204	(226,453,446)	1,576,021	134,560,806
1-12	2054	2,042	2,800,123	200,575,200	833	2,749,026	(200,524,936)	(14,543,823)	(90,316,618)
1-12	2055	1,639	2,171,711	175,529,878	385	2,308,856	(175,667,409)	(29,946,867)	(305,385,377)
1-12	2056	1,306	1,667,816	152,646,166	89	1,925,041	(152,903,480)	(44,706,049)	(510,999,653)
1-12	2057	1,033	1,267,848	132,205,250	-	1,592,690	(132,530,092)	(58,945,835)	(708,609,182)
1-12	2058	811	953,971	113,791,169	-	1,307,841	(114,145,038)	(72,798,105)	(900,085,108)
1-12	2059	633	710,557	96,592,605	-	1,065,999	(96,948,047)	(86,354,730)	(1,087,028,251)
1-12	2060	491	528,268	81,007,025	-	861,999	(81,340,757)	(99,688,112)	(1,270,331,029)
1-12	2061	378	393,029	67,534,843	-	692,124	(67,833,938)	(112,926,396)	(1,451,359,898)
1-12	2062	289	290,229	56,060,128	-	552,562	(56,322,462)	(126,220,646)	(1,632,120,232)
1-12	2063	220	212,735	46,332,471	-	438,570	(46,558,306)	(139,717,411)	(1,814,663,340)
1-12	2064	166	154,715	38,160,569	-	345,995	(38,351,849)	(153,557,320)	(2,000,939,057)
1-12	2065	125	111,585	31,339,195	-	271,479	(31,499,089)	(167,877,533)	(2,192,848,225)
1-12	2066	93	79,863	25,632,598	-	211,790	(25,764,525)	(182,808,621)	(2,392,224,848)
1-12	2067	69	56,654	20,924,166	-	164,111	(21,031,622)	(198,476,743)	(2,600,797,994)
1-12	2068	51	39,726	16,942,992	-	126,538	(17,029,804)	(215,005,458)	(2,820,306,359)
1-12	2069	37	27,430	13,560,292	-	96,768	(13,629,631)	(232,508,912)	(3,052,341,621)
1-12	2070	27	18,592	10,752,486	-	73,166	(10,807,059)	(251,106,063)	(3,298,480,164)
1-6	2071	23	6,742	4,484,883	-	29,652	(4,507,793)	(132,902,817)	(3,560,393,287)
									(3,697,803,896)

Attachment B(7)

Intvestment Rate Decreased 3%

California Public Employees Retirement System

Summary of Projected Values
All Plans

Starting Rate Before Adjustments:	Annual
Projection Years 1 - 10:	6.25%
Projection Years 11+:	7.60%
Discount Rate Adjustments:	Scenario 7

LTC Program Funded Ratio:	64.08%								
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	(1,836,813,300)	= Standard Program Definition							
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	-47.87%	= Standard Program Definition							
Fund Balance @ End of Projection:	(24,088,342,900)	100.00%			100.00%				
Totals - 7/2011 thru 6/2071:	5,545,681,269	19,529,919,673	90,896,489	750,438,987	(14,825,573,880)	(12,539,553,842)			
As a % of Premiums:	100.00%	352.16%	1.64%	13.53%	-267.34%	-226.11%			
Totals - Present Values:	3,836,906,603	8,467,528,091	70,630,492	412,346,141	(5,113,598,122)	298,377,906			
As a % of PV(Premiums):	100.00%	220.69%	1.84%	10.75%	-133.27%	7.78%			

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	86,518,260	3,387,165	8,981,681	64,327,889	53,503,070	3,276,784,822
1-12	2012	147,709	319,059,141	189,064,343	6,895,002	18,148,098	104,951,698	112,387,570	3,394,615,780
1-12	2013	143,043	310,506,451	213,621,901	7,167,348	18,746,908	70,970,294	118,927,131	3,611,955,049
1-12	2014	138,324	301,716,982	235,804,779	7,218,240	19,383,443	39,310,519	124,537,896	3,801,852,474
1-12	2015	133,569	292,812,777	252,377,141	6,975,166	20,045,063	13,415,407	129,443,441	3,965,700,890
1-12	2016	128,772	283,662,504	271,464,517	6,685,429	20,730,126	(15,217,569)	133,625,179	4,108,559,738
1-12	2017	123,912	274,128,945	291,313,450	6,346,259	21,274,336	(44,805,099)	136,982,895	4,226,967,348
1-12	2018	118,985	264,230,361	309,404,757	5,893,779	21,763,059	(72,831,233)	139,511,531	4,319,145,144
1-12	2019	114,031	254,007,602	326,727,442	5,344,120	22,208,604	(100,272,564)	141,230,743	4,385,825,441
1-12	2020	109,076	243,443,552	343,459,398	4,812,904	22,630,437	(127,459,187)	141,230,743	4,426,783,620
1-12	2021	104,128	232,599,901	357,608,875	4,330,873	23,046,183	(152,386,030)	142,097,300	4,441,421,733
1-12	2022	99,172	221,541,618	373,880,074	3,887,360	23,412,613	(179,638,430)	171,334,921	4,460,370,624
1-12	2023	94,202	210,311,139	393,964,804	3,405,930	23,700,092	(210,759,687)	201,489,149	4,482,221,344
1-12	2024	89,249	199,001,068	414,108,559	2,918,933	23,905,755	(241,932,180)	201,779,210	4,473,240,867
1-12	2025	84,345	187,658,130	435,644,456	2,507,685	24,047,771	(274,541,782)	200,639,768	4,431,948,454
1-12	2026	79,502	176,331,779	459,722,190	2,180,288	24,141,270	(309,711,968)	197,993,280	4,355,399,952
1-12	2027	74,710	165,080,604	483,751,478	1,906,328	24,152,780	(344,729,982)	193,664,227	4,239,352,211
1-12	2028	69,968	153,956,756	504,626,657	1,631,506	24,045,434	(376,346,841)	187,506,159	4,082,128,388
1-12	2029	65,294	142,987,659	521,966,548	1,364,822	23,812,655	(404,156,366)	179,522,702	3,885,304,248
1-12	2030	60,718	132,203,311	539,004,799	1,135,750	23,470,506	(431,407,744)	169,807,377	3,650,955,259
1-12	2031	56,254	121,641,574	558,280,229	951,176	23,058,064	(460,647,895)	158,394,690	3,377,942,205
1-12	2032	51,885	111,327,765	577,770,778	815,223	22,660,699	(489,918,935)	145,167,627	3,062,461,937
1-12	2033	47,618	101,314,984	591,395,682	685,794	22,142,029	(512,908,521)	129,957,364	2,702,500,366
1-12	2034	43,471	91,646,420	599,727,318	556,720	21,476,888	(530,114,506)	112,836,500	2,302,428,345
1-12	2035	39,474	82,340,290	606,614,417	435,286	20,682,434	(545,391,847)	94,007,335	1,866,321,174
1-12	2036	35,657	73,479,687	614,058,683	337,397	19,792,076	(560,708,468)	73,583,344	1,394,512,670
1-12	2037	32,030	65,124,492	618,983,471	268,664	18,825,823	(572,953,466)	51,516,978	885,321,180
1-12	2038	28,595	57,322,422	615,518,913	214,154	17,781,528	(576,192,173)	27,782,999	340,150,714
1-12	2039	25,365	50,086,087	603,959,865	165,968	16,651,118	(570,690,864)	2,578,782	(233,462,678)
1-12	2040	22,364	43,432,755	589,474,789	123,600	15,462,962	(561,628,596)	(23,719,973)	(827,873,515)
1-12	2041	19,607	37,389,850	574,966,945	89,744	14,265,872	(551,932,712)	(50,871,803)	(1,440,373,914)
1-12	2042	17,091	31,962,611	557,053,936	65,926	13,093,630	(538,250,881)	(78,836,909)	(2,071,143,534)
1-12	2043	14,806	27,134,548	531,609,781	50,599	11,943,747	(516,469,579)	(107,570,993)	(2,716,965,408)
1-12	2044	12,745	22,874,351	500,375,134	38,684	10,805,046	(488,344,513)	(136,822,417)	(3,370,257,404)
1-12	2045	10,905	19,145,498	468,334,699	29,746	9,693,356	(468,469,579)	(166,255,669)	(4,024,857,586)
1-12	2046	9,279	15,914,975	438,114,684	22,303	8,636,619	(458,912,303)	(195,699,117)	(4,679,469,006)
1-12	2047	7,851	13,138,654	408,476,443	16,273	7,654,212	(430,858,631)	(225,169,579)	(5,335,497,215)
1-12	2048	6,605	10,774,947	376,289,127	11,797	6,753,998	(403,008,274)	(254,718,425)	(5,993,223,914)
1-12	2049	5,521	8,777,852	342,413,795	8,319	5,923,852	(372,279,974)	(284,290,020)	(6,649,793,908)
1-12	2050	4,584	7,098,066	309,513,714	5,547	5,157,676	(339,568,113)	(313,751,813)	(7,303,113,834)
1-12	2051	3,782	5,695,635	279,384,459	3,549	4,452,864	(307,578,872)	(343,070,590)	(7,953,763,295)
1-12	2052	3,100	4,533,153	252,715,908	2,359	3,814,271	(278,145,237)	(372,319,227)	(8,604,227,759)
1-12	2053	2,524	3,577,784	226,780,559	1,467	3,249,204	(251,999,384)	(401,633,933)	(9,257,861,076)
1-12	2054	2,042	2,800,123	200,575,200	833	2,749,026	(226,453,446)	(431,121,873)	(9,915,436,395)
1-12	2055	1,639	2,171,711	175,529,878	385	2,308,856	(200,524,936)	(460,779,931)	(10,576,741,262)
1-12	2056	1,306	1,667,816	152,646,166	89	1,925,041	(175,667,409)	(490,627,011)	(11,243,035,682)
1-12	2057	1,033	1,267,848	132,205,250	-	1,592,690	(152,903,480)	(520,749,036)	(11,916,688,198)
1-12	2058	811	953,971	113,791,169	-	1,307,841	(132,530,092)	(551,263,640)	(12,600,481,929)
1-12	2059	633	710,557	96,592,605	-	1,065,999	(114,145,038)	(582,292,550)	(13,296,919,518)
1-12	2060	491	528,268	81,007,025	-	861,999	(96,948,047)	(613,932,768)	(14,007,800,333)
1-12	2061	378	393,029	67,534,843	-	692,124	(81,340,757)	(646,269,882)	(14,735,410,972)
1-12	2062	289	290,229	56,060,128	-	552,562	(67,833,938)	(679,423,836)	(15,482,668,746)
1-12	2063	220	212,735	46,332,471	-	438,570	(56,322,462)	(713,527,999)	(16,252,519,207)
1-12	2064	166	154,715	38,160,569	-	345,995	(46,558,306)	(748,712,181)	(17,047,789,693)
1-12	2065	125	111,585	31,339,195	-	271,479	(38,351,849)	(785,101,844)	(17,871,243,386)
1-12	2066	93	79,863	25,632,598	-	211,790	(31,499,089)	(822,819,653)	(18,725,562,128)
1-12	2067	69	56,654	20,924,166	-	164,111	(25,764,525)	(861,983,610)	(19,613,310,263)
1-12	2068	51	39,726	16,942,992	-	126,538	(21,031,622)	(902,708,488)	(20,537,050,373)
1-12	2069	37	27,430	13,560,292	-	96,768	(17,029,804)	(945,106,940)	(21,499,187,117)
1-12	2070	27	18,592	10,752,486	-	73,166	(13,629,631)	(989,285,437)	(22,502,102,185)
1-6	2071	23	6,742	4,484,883	-	29,652	(10,807,059)	(1,035,353,025)	(23,548,262,268)
							(4,507,793)	(535,572,839)	(24,088,342,900)

Attachment C

Attachment C

Long-Term Care Model(s) and Assumptions

A. Model(s)

Projection results are based on a projection of 154,634 inforce members as of 6/30/11 from business issued through 6/30/11. CalPERS LTC business consists of facility-only and comprehensive coverages and includes a variety of elimination period/benefit period/inflation coverage combinations. A summary of the model cells we used for projection purposes has been included as Attachment E.

Please note that we combined member information for each potential model cell for which there were few inforce members into a projection model cell with the most similar benefit design.

Projection results for each cell reflect output from three different models. The first model generates base plan projections, the second generates premium waiver projections, and the third generates return-of-premium benefit projections. Given that the first two models are built from the same model chassis and the relative insignificance of waiver-of-premium and return-of-premium benefits as compared to base plan benefits, the remainder of this attachment will focus on the base plan benefit model. Please note that the assumptions used for the latter two models are consistent with those used in the corresponding base plan projections.

B. Inforce Members as of 6/30/11 - Distributions of Business

The following distributions for all inforce members as of 6/30/11 are included in Attachment F:

- By benefit period and elimination period
- By issue-age and attained-age
- By coverage
- By inflation option
- By gender
- By marital status
- By premium mode
- By underwriting type
- By product series

Please let us know if you would like to see additional distributions relating to the 6/30/11 inforce business.

C. Assumptions

Please note that detailed assumption printouts can be readily generated from each model for every model cell. The following subsections discuss additional information regarding

the various assumptions used and include summaries of assumptions used throughout all of the model cells.

1. Morbidity

The CalPERS underlying morbidity experience continues to develop, and we continuously review and revise our approaches to take into account the best data/information available to us.

From a modeling standpoint, the following morbidity assumptions were used:

Ultimate Claim Costs - These vary by benefit design, gender and attained age, and were developed as described below.

Selection Factors – Experience selection factors were developed as described below and vary by issue-age band, duration, issue era, and underwriting type. The manual selection factors vary by issue-age band, duration, and underwriting type, and are identical to those assumed in the 2010 Annual Valuation.

Morbidity Selection Factors and Ultimate Claim Cost Development and Modeling - Summary: For the benefit designs modeled, we performed detailed select-and-ultimate claim cost analyses and adjusted assumed select-and-ultimate claim costs based on the results of those analyses.

a. Experience Studies

We updated the experience report comparing actual select-and-ultimate Program claim costs to expected select-and-ultimate claim costs where the expected claim costs were based on the Univita manual assumptions. Because of the level of detail included in the study, claims with an incurred date from 7/1/10 through 6/30/11 were excluded (i.e., those within twelve months of the valuation date). These claims were excluded because over a third of the total number of claims incurred within a given year are not reported or do not receive payments as of the end of that year, and an allocation of these estimated unreported claims could have distorted the results of our study. For all incurred claims included in this study, we used updated payment data through 6/30/11 and claim reserves estimated as of 6/30/11.

b. Claim Cost Development

We used the following approach with respect to our select-and-ultimate claim cost analyses:

- Using source coverage and claims data files from Univita and given relevant direction from Univita actuarial personnel regarding the interpretation and processing of that data, we developed complete inception-to-date exposure and claims databases for the Program.

- We added provision for claim reserves and incurred but not reported (IBNR) claim liabilities. The former were added on a seriatim basis, while the latter were allocated across inforce policies not on claim as of the valuation date based on annualized premiums (to the individual cell level).
- The experience report in item a. above continued to confirm that incurred claim experience varies by underwriting type and when a given policy was issued. Using the results of the study and consistent with the 2010 Annual Valuation, select-and-ultimate factors were created to modify the Univita manual selection factors. The result of this step is a set of experience select-and-ultimate factors that vary by calendar year of issue and underwriting type. While these select-and-ultimate factors were developed from actual experience, industry selection wear-off patterns were also considered when determining the lengths of the selection periods as well as the ultimate selection factors for each issue-age band.
- We used the experience select-and-ultimate factors created in the previous step as “gross-up factors” that were used to adjust incurred claims for earlier durations to estimated ultimate levels.
- All incurred claims were grossed up as indicated above.
- We developed a summary of estimated ultimate incurred claim costs by attained-age band and gender for the benefit designs we explicitly modeled.

c. Modeling

The estimated actual ultimate male and female claim costs for pivotal ages 47, 57, 62, 67, 72, 77, 82 and 87 were adjusted such that they were on the same basis as Univita manual ultimate claim costs. The experience ultimate claim costs between the pivotal ages were developed using standard interpolation methods. Corresponding claim costs for attained-ages 37 and younger and 97 and older were set at Univita’s manual ultimate claim costs. Claim costs between 37 and 47 and between 87 and 97 were developed using standard interpolation methods.

In order to validate the experience claim costs, an actual-to-expected claim cost experience study was created using the recently created experience select-and-ultimate claim costs as the expected table. In our opinion, the assumptions we used reasonably reproduce historical experience.

The resulting adjusted claim costs combined with the select-and-ultimate factors were credibility-weighted with the corresponding Univita manual select-and-ultimate claim costs to develop the assumed claim costs.

d. Additional Information Applicable to the Development of Morbidity

Assumptions

As a reminder, we chose to utilize the associated manual morbidity assumptions utilized when we started our initial valuation in 2005 as a basis for assumed valuation morbidity as opposed to our own LTC claims database for the following reasons:

- The manual better reflected experience for the LTC insurance industry as a whole;
- It required relatively few adjustments before it could be utilized for this purpose; and,
- Relevant values had already been developed for prior valuation work and were readily available.

The credibility standards we applied were taken from the results of an analysis dated 5/28/03 performed by the Credibility Subgroup of the American Academy of Actuaries Long-Term Care Reserving Work Group. For credibility-weighting purposes, we considered “full credibility” to mean that there would be a 90% probability that estimates would fall within 10% of expected claim costs, and we used appropriate Program data to develop the minimum claim count needed for each cell in order to ascribe full credibility to the actual experience associated with that cell. We ascribed partial credibility for a given cell based on the relationship between actual claim counts and “full credibility” claim counts; however, any actual claim volume that resulted in less than a 20% credibility-weighting to actual experience was ignored entirely.

Claim Payment Distributions – These vary by age at claim incurral, gender, plan, benefit period, and claim duration. They were updated for this valuation to reflect emerging experience and were developed to be consistent with current liability/reserve levels.

Morbidity Improvement – Consistent with population experience and relevant actuarial documentation and practice, we assumed that future morbidity would improve by 1% per year for 20 years from the valuation date. We also made a corresponding mortality improvement assumption.

Inflation Adjustment – Appropriate morbidity adjustments are made for policies with inflation protection.

Adjustments to Reflect Individuals Already on Claim – These vary by benefit period, inflation coverage, gender, issue age and duration. They are used to adjust the assumed claim costs to be on an exposure basis consistent with that used in the projection model.

2. Policy Terminations

The following description is a summary of the process we utilized in the 2009 valuation to determine the appropriate mortality assumption. For the 2011 valuation, we assumed the same mortality assumption and confirmed and updated the lapse assumption utilizing the additional year of total termination experience available.

2009 Valuation Mortality Development - Generally, deaths are not consistently reported in LTC insurance, and therefore it is customary to compare the historical inforce file to a Social Security Database to properly identifying those that have died rather than those that have lapsed coverage. Accurate mortality assumptions are important when projecting future terminations within a LTC block because as the block ages the mortality becomes a greater proportion of total terminations.

Using the November 2008 Social Security Database, we identified deaths within the CalPERS LTC Program by matching social security numbers, names, and birthdates. In total, over 17,000 deaths were confirmed or identified through this process. Any inconsistencies such as those reported as deaths in the Social Security Database but still active in the CalPERS Program were reported to the Univita.

Using the identified deaths, we compared the actual mortality experience to what was expected using last year's valuation assumptions. Overall, the previous assumptions were reasonable, but we identified several refinements. In addition, members that were on claim had mortality rates that were, on average, two to three times higher than those that were not claim. Because of the significant difference between these two cohorts, we further developed two separate mortality assumptions; one for members not on claim, and one for those on claim. The development of these assumptions is discussed next.

a. Mortality assumptions for members not on claim

The CalPERS LTC Program mortality experience for members not on claim indicates that initially after a member enters the Program, the mortality is lower and this lower mortality extends out further than previously assumed. As a result, the revised mortality selection factors were reduced and extended out to ten years. These new selection factors are included shown below.

In addition to modifying the selection factors, attained age adjustment factors were developed and refined to a level that when they were combined with the new selection factors, the expected deaths for members not on claim equaled the actual deaths.

b. Mortality assumptions for members on claim

Applying the above mortality assumptions developed for members not on claim to those on claim resulted in actual deaths being 2.5 times higher than expected in the aggregate. Further refining this comparison, the younger members on claim had much higher mortality than members of the same age group that were not on claim. Older members on claim also had higher actual deaths than expected but

not nearly as high as the younger members. As a result, additional attained age factors were developed to increase expected mortality for members on claim. These additional factors were developed and refined to a level that produced an expected number of deaths equal to that of the actual level for members on claim.

c. Assumed mortality

The following were used for all projection cells as the assumed mortality:

- 1994 GAM table along with 100% of projection scale AA used for the next twenty years.
- Selection factors by policy year as follows:

Policy Year 1:	0.33
Policy Year 2:	0.42
Policy Year 3:	0.50
Policy Year 4:	0.56
Policy Year 5:	0.57
Policy Year 6:	0.60
Policy Year 7:	0.65
Policy Year 8:	0.70
Policy Year 9:	0.71
Policy Year 10+:	0.71
- We used the same attained-age adjustment factors as were used in the 2009 and 2010 Annual Valuations.

Resetting the Assumed Lapse Assumptions - Using actual total termination experience and the 2008 mortality assumptions, the lapse assumptions were developed. Regarding the analysis performed, we started with the actual total termination experience including both voluntary lapses and deaths, and we then backed out the revised assumed mortality to review actual voluntary lapse rates. The revised lapse assumptions were then developed to correspond to the observed actual lapses.

In resetting the lapse assumptions, we closely reviewed termination experience from 7/09 and 6/11 because of the potential for increased lapses due to the current economic conditions and announcements related to premium rate increases.

a. Impact to the projected results from the above lapse changes

The impact from the updated lapse assumptions is summarized in the “Reconciliation of Base Case Valuation Results - 2010 to 2011” section.

b. Voluntary Lapse Rates

The following assumed voluntary lapse rates were used for all projection cells:

Age Group	Policy Year										
	1	2	3	4	5	6	7	8	9	10	11+
< 40	4.7%	3.6%	3.4%	2.6%	2.6%	2.6%	2.5%	2.4%	2.0%	1.9%	1.9%
40 - 49	3.3%	2.3%	1.9%	1.7%	1.6%	1.4%	1.3%	1.3%	1.1%	0.9%	0.9%
50 - 59	2.7%	1.8%	1.4%	1.1%	1.1%	0.9%	0.9%	0.7%	0.5%	0.4%	0.4%
60 - 69	2.0%	1.2%	0.9%	0.7%	0.6%	0.6%	0.5%	0.5%	0.4%	0.4%	0.4%
70 - 79	2.0%	0.9%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%
80 +	2.3%	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%

In addition, lapse rates were increased to reflect claimants that exhaust limited benefit periods.

3. Expenses

We used the following expense assumptions:

- We received an update to Univita's contracted expense costs for fixed and per member fees. These expense fees are effective through 2012, and we assumed the factors were increased by an inflation rate of 3% starting in 2013.
- We assumed CalPERS operational expenses would be \$68,471 per month through January of 2012 and increase 3% for inflation each February thereafter.
- Starting in February 2017, we reduced the inflated fixed dollar fees by the ratio of current premium to the prior year premium. The intent of this is to adjust for the fact that if the Program volume declines, expenses would need to decline as well.
- We converted Univita claim adjudication fees to 3.74% of incurred claims and increased these by 3% each year for inflation.

4. Discount Rate

As discussed in the report regarding discount rates, we assumed 6.25% for projection years 1 – 10, and 7.60% for projection years 11+.

5. Assumptions Relating to the Implementation of Ongoing Premium Rate Increases

Consistent with the assumptions relating to the development of the recommended rate increases in December 2009, we continue to assume conversions, shock lapses, and anti-selection associated the ongoing rate increases.

Attachment D

Attachment D

CalPERS LTC Program Comparison of Actual and Projected Results For 7/2010 thru 6/2011

	6/30/2010 Valuation <u>Projection Results</u>	<u>Actual Results</u>	Actual Less Expected Dollar <u>Differences</u>	Actual/Expected Percentage <u>Differences</u>
Actual Fund Balance as of 6/30/10:	2,609,672,826	2,609,672,826		
<u>Cash Flows from 7/2010 thru 6/2011</u>				
Premiums	330,048,078	315,776,762	(14,271,316)	-4.32%
Investment Income	171,595,689	537,156,718	365,561,029	213.04%
Paid Claims	154,506,270	156,117,839	1,611,569	1.04%
Expenses	17,954,468	21,303,862	3,349,394	18.65%
Prior Year Adjustments		1,677,352		
Change in "Other Program Liabilities"		6,551,538		
Estimated Fund Balance as of 6/30/11: (Calculated from Values Above)	2,938,855,855	3,276,955,715	338,099,860	11.50%
Actual Fund Balance as of 6/30/11:	3,276,784,822	3,276,784,822		
Estimated vs. Actual - Dollar Differences:	(337,928,966)	170,893	338,099,860	
Estimated vs. Actual - Percentage Differences:	-10.31%	0.01%		

Attachment E

CalPERS LTC Program
Summary of Model Cells Included in 6/30/2011 Projection

<u>Cell Name</u>	<u>Cell Description</u>	<u>Count</u>	<u>Annualized Premium</u>
LT01_C3_LF	Comprehensive, 3 Yr BP, 90 Day EP, No Inflation, 50% HHC, 50% ALF, LF U/W	4,975	9,380,111
LT01_C3_MGI	Comprehensive, 3 Yr BP, 90 Day EP, No Inflation, 50% HHC, 50% ALF, MGI U/W	1,213	1,225,615
LT01_C3_SF	Comprehensive, 3 Yr BP, 90 Day EP, No Inflation, 50% HHC, 50% ALF, SF U/W	955	969,249
LT01_C3_LF	Comprehensive, 3 Yr BP, 90 Day EP, Inflation, 50% HHC, 50% ALF, LF U/W	6,329	13,323,168
LT01_C3_MGI	Comprehensive, 3 Yr BP, 90 Day EP, Inflation, 50% HHC, 50% ALF, MGI U/W	1,668	2,404,185
LT01_C3_SF	Comprehensive, 3 Yr BP, 90 Day EP, Inflation, 50% HHC, 50% ALF, SF U/W	1,544	2,352,739
LT01_C6_LF	Comprehensive, 6 Yr BP, 90 Day EP, No Inflation, 50% HHC, 50% ALF, LF U/W	752	1,372,371
LT01_C6_MGI	Comprehensive, 6 Yr BP, 90 Day EP, No Inflation, 50% HHC, 50% ALF, MGI U/W	268	253,836
LT01_C6_SF	Comprehensive, 6 Yr BP, 90 Day EP, No Inflation, 50% HHC, 50% ALF, SF U/W	187	196,321
LT01_C6_LF	Comprehensive, 6 Yr BP, 90 Day EP, Inflation, 50% HHC, 50% ALF, LF U/W	1,983	5,009,542
LT01_C6_MGI	Comprehensive, 6 Yr BP, 90 Day EP, Inflation, 50% HHC, 50% ALF, MGI U/W	655	1,199,809
LT01_C6_SF	Comprehensive, 6 Yr BP, 90 Day EP, Inflation, 50% HHC, 50% ALF, SF U/W	640	1,253,064
LT01_CL_LF	Comprehensive, Lifetime BP, 90 Day EP, No Inflation, 50% HHC, 50% ALF, LF U/W	7,508	19,149,601
LT01_CL_MGI	Comprehensive, Lifetime BP, 90 Day EP, No Inflation, 50% HHC, 50% ALF, MGI U/W	4,519	6,541,380
LT01_CL_SF	Comprehensive, Lifetime BP, 90 Day EP, No Inflation, 50% HHC, 50% ALF, SF U/W	3,167	4,561,959
LT01_CL_LF	Comprehensive, Lifetime BP, 90 Day EP, Inflation, 50% HHC, 50% ALF, LF U/W	29,595	84,754,157
LT01_CL_MGI	Comprehensive, Lifetime BP, 90 Day EP, Inflation, 50% HHC, 50% ALF, MGI U/W	16,519	34,164,776
LT01_CL_SF	Comprehensive, Lifetime BP, 90 Day EP, Inflation, 50% HHC, 50% ALF, SF U/W	13,014	28,534,767
LT01_N3_LF	Facilities Only, 3 Yr BP, 90 Day EP, No Inflation, 50% ALF, LF U/W	3,286	4,566,344
LT01_N3_MGI	Facilities Only, 3 Yr BP, 90 Day EP, No Inflation, 50% ALF, MGI U/W	442	342,367
LT01_N3_SF	Facilities Only, 3 Yr BP, 90 Day EP, No Inflation, 50% ALF, SF U/W	341	277,059
LT01_N3_LF	Facilities Only, 3 Yr BP, 90 Day EP, Inflation, 50% ALF, LF U/W	3,197	5,580,168
LT01_N3_MGI	Facilities Only, 3 Yr BP, 90 Day EP, Inflation, 50% ALF, MGI U/W	683	764,578
LT01_N3_SF	Facilities Only, 3 Yr BP, 90 Day EP, Inflation, 50% ALF, SF U/W	742	914,903
LT01_N6_LF	Facilities Only, 6 Yr BP, 90 Day EP, No Inflation, 50% ALF, LF U/W	606	916,126
LT01_N6_MGI	Facilities Only, 6 Yr BP, 90 Day EP, No Inflation, 50% ALF, MGI U/W	53	49,065
LT01_N6_SF	Facilities Only, 6 Yr BP, 90 Day EP, No Inflation, 50% ALF, SF U/W	65	66,842
LT01_N6_LF	Facilities Only, 6 Yr BP, 90 Day EP, Inflation, 50% ALF, LF U/W	692	1,586,171
LT01_N6_MGI	Facilities Only, 6 Yr BP, 90 Day EP, Inflation, 50% ALF, MGI U/W	132	208,614
LT01_N6_SF	Facilities Only, 6 Yr BP, 90 Day EP, Inflation, 50% ALF, SF U/W	156	265,875
LT01_NL_LF	Facilities Only, Lifetime BP, 90 Day EP, No Inflation, 50% ALF, LF U/W	3,437	7,163,483
LT01_NL_MGI	Facilities Only, Lifetime BP, 90 Day EP, No Inflation, 50% ALF, MGI U/W	602	694,052
LT01_NL_SF	Facilities Only, Lifetime BP, 90 Day EP, No Inflation, 50% ALF, SF U/W	596	703,577
LT01_NL_LF	Facilities Only, Lifetime BP, 90 Day EP, Inflation, 50% ALF, LF U/W	8,391	20,713,962
LT01_NL_MGI	Facilities Only, Lifetime BP, 90 Day EP, Inflation, 50% ALF, MGI U/W	2,101	3,476,836
LT01_NL_SF	Facilities Only, Lifetime BP, 90 Day EP, Inflation, 50% ALF, SF U/W	2,350	4,037,021
LT01_P1_LF	Partnership, 1 Yr BP, 30 Day EP, Inflation, 50% HHC, 50% ALF, LF U/W	1,533	2,001,584
LT01_P1_MGI	Partnership, 1 Yr BP, 30 Day EP, Inflation, 50% HHC, 50% ALF, MGI U/W	334	254,017
LT01_P1_SF	Partnership, 1 Yr BP, 30 Day EP, Inflation, 50% HHC, 50% ALF, SF U/W	286	209,349
LT01_P2_LF	Partnership, 2 Yr BP, 30 Day EP, Inflation, 50% HHC, 50% ALF, LF U/W	2,213	4,326,510
LT01_P2_MGI	Partnership, 2 Yr BP, 30 Day EP, Inflation, 50% HHC, 50% ALF, MGI U/W	576	686,412
LT01_P2_SF	Partnership, 2 Yr BP, 30 Day EP, Inflation, 50% HHC, 50% ALF, SF U/W	622	702,279
LT01_P6M_LF	Partnership, 6 Mo BP, 30 Day EP, Inflation, 50% HHC, 50% ALF, LF U/W	141	140,995
LT01_P6M_MGI	Partnership, 6 Mo BP, 30 Day EP, Inflation, 50% HHC, 50% ALF, MGI U/W	21	11,317
LT01_P6M_SF	Partnership, 6 Mo BP, 30 Day EP, Inflation, 50% HHC, 50% ALF, SF U/W	11	6,987
LT02_C3_LF	Comprehensive, 3 Yr BP, 90 Day EP, No Inflation, 50% HHC, 70% ALF, LF U/W	666	1,034,840
LT02_C3_MGI	Comprehensive, 3 Yr BP, 90 Day EP, No Inflation, 50% HHC, 70% ALF, MGI U/W - Conversions	8	10,723
LT02_C3_SF	Comprehensive, 3 Yr BP, 90 Day EP, No Inflation, 50% HHC, 70% ALF, SF U/W - Conversions	7	8,160
LT02_C3_LF	Comprehensive, 3 Yr BP, 90 Day EP, Inflation, 50% HHC, 70% ALF, LF U/W	987	2,189,362
LT02_C3_MGI	Comprehensive, 3 Yr BP, 90 Day EP, Inflation, 50% HHC, 70% ALF, LF U/W - Conversions	4	8,596
LT02_C3_SF	Comprehensive, 3 Yr BP, 90 Day EP, Inflation, 50% HHC, 70% ALF, MGI U/W - Conversions	5	12,755
LT02_C6_LF	Comprehensive, 6 Yr BP, 90 Day EP, No Inflation, 50% HHC, 70% ALF, LF U/W	96	178,159
LT02_C6_MGI	Comprehensive, 6 Yr BP, 90 Day EP, No Inflation, 50% HHC, 70% ALF, MGI U/W	2	2,415
LT02_C6_SF	Comprehensive, 6 Yr BP, 90 Day EP, Inflation, 50% HHC, 70% ALF, LF U/W	140	396,691
LT02_C6_MGI	Comprehensive, 6 Yr BP, 90 Day EP, Inflation, 50% HHC, 70% ALF, MGI U/W	1	3,680
LT02_C6_SF	Comprehensive, 6 Yr BP, 90 Day EP, Inflation, 50% HHC, 70% ALF, SF U/W	1	3,071
LT02_CL_LF	Comprehensive, Lifetime BP, 90 Day EP, No Inflation, 50% HHC, 70% ALF, LF U/W	1,827	3,245,738
LT02_CL_MGI	Comprehensive, Lifetime BP, 90 Day EP, No Inflation, 50% HHC, 70% ALF, MGI U/W - Conversions	23	51,995
LT02_CL_SF	Comprehensive, Lifetime BP, 90 Day EP, No Inflation, 50% HHC, 70% ALF, SF U/W - Conversions	19	33,275
LT02_CL_LF	Comprehensive, Lifetime BP, 90 Day EP, Inflation, 50% HHC, 70% ALF, LF U/W	3,740	11,664,909
LT02_CL_MGI	Comprehensive, Lifetime BP, 90 Day EP, Inflation, 50% HHC, 70% ALF, MGI U/W - Conversions	22	78,795
LT02_CL_SF	Comprehensive, Lifetime BP, 90 Day EP, Inflation, 50% HHC, 70% ALF, SF U/W - Conversions	28	97,109
LT02_N3_LF	Facilities Only, 3 Yr BP, 90 Day EP, No Inflation, 70% ALF, LF U/W	173	208,033
LT02_N3_MGI	Facilities Only, 3 Yr BP, 90 Day EP, Inflation, 70% ALF, LF U/W	164	298,790
LT02_N6_LF	Facilities Only, 6 Yr BP, 90 Day EP, No Inflation, 70% ALF, LF U/W	33	50,892
LT02_N6_MGI	Facilities Only, 6 Yr BP, 90 Day EP, Inflation, 70% ALF, LF U/W	40	99,121
LT02_NL_LF	Facilities Only, Lifetime BP, 90 Day EP, No Inflation, 70% ALF, LF U/W	259	423,626
LT02_NL_MGI	Facilities Only, Lifetime BP, 90 Day EP, Inflation, 70% ALF, LF U/W	548	1,276,620
LT02_NL_SF	Facilities Only, Lifetime BP, 90 Day EP, Inflation, 70% ALF, MGI U/W - Conversions	2	8,173
LT02_P1_LF	Partnership, 1 Yr BP, 30 Day EP, Inflation, 50% HHC, 70% ALF, SF U/W - Conversions	1	2,281
LT02_P2_LF	Partnership, 2 Yr BP, 30 Day EP, Inflation, 50% HHC, 70% ALF, LF U/W	173	354,702
LT02_P6M_LF	Partnership, 6 Mo BP, 30 Day EP, Inflation, 50% HHC, 70% ALF, LF U/W	11	12,358
LT03_C3_LF	Comprehensive, 3 Yr BP, 90 Day EP, No Inflation, 70% HHC, 70% ALF, LF U/W	819	1,120,854
LT03_C3_MGI	Comprehensive, 3 Yr BP, 90 Day EP, No Inflation, 70% HHC, 70% ALF, MGI U/W - Conversions	63	59,168
LT03_C3_SF	Comprehensive, 3 Yr BP, 90 Day EP, No Inflation, 70% HHC, 70% ALF, SF U/W - Conversions	47	31,197
LT03_C3_LF	Comprehensive, 3 Yr BP, 90 Day EP, Inflation, 70% HHC, 70% ALF, LF U/W	2,281	4,661,860
LT03_C3_MGI	Comprehensive, 3 Yr BP, 90 Day EP, Inflation, 70% HHC, 70% ALF, MGI U/W - Conversions	364	501,965
LT03_C3_SF	Comprehensive, 3 Yr BP, 90 Day EP, Inflation, 70% HHC, 70% ALF, SF U/W - Conversions	383	565,618
LT03_C6_LF	Comprehensive, 6 Yr BP, 90 Day EP, No Inflation, 70% HHC, 70% ALF, LF U/W	2,787	4,710,706
LT03_C6_MGI	Comprehensive, 6 Yr BP, 90 Day EP, No Inflation, 70% HHC, 70% ALF, MGI U/W - Conversions	618	626,133
LT03_C6_SF	Comprehensive, 6 Yr BP, 90 Day EP, No Inflation, 70% HHC, 70% ALF, SF U/W - Conversions	473	513,108
LT03_C6_LF	Comprehensive, 6 Yr BP, 90 Day EP, Inflation, 70% HHC, 70% ALF, LF U/W	2,559	6,891,103
LT03_C6_MGI	Comprehensive, 6 Yr BP, 90 Day EP, Inflation, 70% HHC, 70% ALF, MGI U/W - Conversions	479	955,861
LT03_C6_SF	Comprehensive, 6 Yr BP, 90 Day EP, Inflation, 70% HHC, 70% ALF, SF U/W - Conversions	437	940,711
LT03_CL_LF	Comprehensive, Lifetime BP, 90 Day EP, No Inflation, 70% HHC, 70% ALF, LF U/W	1,107	2,157,421
LT03_CL_MGI	Comprehensive, Lifetime BP, 90 Day EP, No Inflation, 70% HHC, 70% ALF, MGI U/W - Conversions	16	36,794
LT03_CL_SF	Comprehensive, Lifetime BP, 90 Day EP, No Inflation, 70% HHC, 70% ALF, SF U/W - Conversions	10	17,208
LT03_CL_LF	Comprehensive, Lifetime BP, 90 Day EP, Inflation, 70% HHC, 70% ALF, LF U/W	1,248	4,603,833
LT03_CL_MGI	Comprehensive, Lifetime BP, 90 Day EP, Inflation, 70% HHC, 70% ALF, MGI U/W - Conversions	8	45,812
LT03_CL_SF	Comprehensive, Lifetime BP, 90 Day EP, Inflation, 70% HHC, 70% ALF, SF U/W - Conversions	6	21,632
LT03_N3_LF	Facilities Only, 3 Yr BP, 90 Day EP, No Inflation, 70% ALF, LF U/W	330	430,897
LT03_N3_MGI	Facilities Only, 3 Yr BP, 90 Day EP, No Inflation, 70% ALF, MGI U/W - Conversions	17	13,060
LT03_N3_SF	Facilities Only, 3 Yr BP, 90 Day EP, No Inflation, 70% ALF, SF U/W - Conversions	21	12,700
LT03_N3_LF	Facilities Only, 3 Yr BP, 90 Day EP, Inflation, 70% ALF, LF U/W	549	1,005,185
LT03_N3_MGI	Facilities Only, 3 Yr BP, 90 Day EP, Inflation, 70% ALF, MGI U/W - Conversions	71	86,860
LT03_N3_SF	Facilities Only, 3 Yr BP, 90 Day EP, Inflation, 70% ALF, SF U/W - Conversions	118	155,726
LT03_N6_LF	Facilities Only, 6 Yr BP, 90 Day EP, No Inflation, 70% ALF, LF U/W	806	1,218,163
LT03_N6_MGI	Facilities Only, 6 Yr BP, 90 Day EP, No Inflation, 70% ALF, MGI U/W - Conversions	70	61,404
LT03_N6_SF	Facilities Only, 6 Yr BP, 90 Day EP, No Inflation, 70% ALF, SF U/W - Conversions	96	82,265
LT03_N6_LF	Facilities Only, 6 Yr BP, 90 Day EP, Inflation, 70% ALF, LF U/W	207	503,091
LT03_N6_MGI	Facilities Only, 6 Yr BP, 90 Day EP, Inflation, 70% ALF, MGI U/W - Conversions	17	34,077
LT03_N6_SF	Facilities Only, 6 Yr BP, 90 Day EP, Inflation, 70% ALF, SF U/W - Conversions	24	47,223
LT03_NL_LF	Facilities Only, Lifetime BP, 90 Day EP, No Inflation, 70% ALF, LF U/W	158	243,540
LT03_NL_MGI	Facilities Only, Lifetime BP, 90 Day EP, No Inflation, 70% ALF, MGI U/W - Conversions	1	4,259
LT03_NL_SF	Facilities Only, Lifetime BP, 90 Day EP, Inflation, 70% ALF, LF U/W	194	497,539
LT03_NL_MGI	Facilities Only, Lifetime BP, 90 Day EP, Inflation, 70% ALF, MGI U/W - Conversions	1	1,521
LT03_P1_LF	Partnership, 1 Yr BP, 30 Day EP, Inflation, 70% ALF, LF U/W	38	55,440
LT03_P2_LF	Partnership, 2 Yr BP, 30 Day EP, Inflation, 70% ALF, LF U/W	70	163,416
Total		154,634	332,263,869

<u>Abbreviation</u>	<u>Description</u>
BP	Benefit Period
EP	Elimination Period
ALF	Assisted Living Facility
HHC	Home Health Care
LF U/W	Long From Underwriting
MGI U/W	Modified Guaranteed Issue Underwriting
SF U/W	Short Form Underwriting

Attachment F

Attachment F

CalPERS LTC Program
Distributions of Business Inforce as of 6/30/2011

By Benefit Period and Elimination Period

<u>Benefit Period</u>	<u>Elimination Period</u>	<u>Count</u>	<u>Percent</u>
6 Month	30 Day	184	0%
1 Year	30 Day	2,252	1%
2 Year	30 Day	3,654	2%
3 Year	90 Day	32,452	21%
6 Year	90 Day	15,075	10%
Lifetime	90 Day	101,017	65%
Total		154,634	100%

By Issue-Age Band and Gender

Average Issue Age

56.4

<u>Issue-Age Band</u>	<u>Females</u>	<u>Males</u>	<u>Total</u>	<u>Percent</u>
< 30	471	263	734	0%
30-39	4,541	2,739	7,280	5%
40-44	6,167	3,415	9,582	6%
45-49	11,526	6,403	17,929	12%
50-54	17,331	10,440	27,771	18%
55-59	19,129	12,770	31,899	21%
60-64	15,665	12,115	27,780	18%
65-69	10,351	7,977	18,328	12%
70-74	5,792	3,600	9,392	6%
75-79	2,162	1,105	3,267	2%
80-84	438	172	610	0%
85-89	49	12	61	0%
90-94	-	1	1	0%
95+	-	-	-	0%
Total	93,622	61,012	154,634	100%

By Attained Age and Gender

Average Attained Age

67.8

<u>Attained Age</u>	<u>Females</u>	<u>Males</u>	<u>Total</u>	<u>Percent</u>
28	-	-	-	0%
29	10	1	11	0%
30	7	4	11	0%
31	8	5	13	0%
32	13	6	19	0%
33	17	11	28	0%
34	26	12	38	0%
35	64	38	102	0%
36	51	38	89	0%
37	60	33	93	0%
38	88	39	127	0%
39	86	57	143	0%
40	88	61	149	0%
41	131	85	216	0%
42	161	84	245	0%
43	224	160	384	0%
44	465	289	754	0%
45	546	339	885	1%
46	483	287	780	1%
47	458	274	732	0%
48	444	307	751	0%
49	981	573	1,554	1%
50	1,590	879	2,469	2%
51	1,129	666	1,795	1%
52	765	458	1,223	1%
53	770	414	1,184	1%
54	1,112	607	1,719	1%
55	2,133	1,152	3,285	2%
56	2,477	1,346	3,823	2%
57	2,056	1,125	3,181	2%
58	1,453	792	2,245	1%
59	1,881	1,073	2,954	2%
60	3,377	2,021	5,398	3%
61	4,414	2,621	7,035	5%
62	3,274	2,093	5,367	3%
63	2,150	1,359	3,509	2%
64	2,473	1,583	4,066	3%
65	4,713	2,937	7,650	5%
66	4,729	3,069	7,798	5%
67	3,573	2,336	5,909	4%
68	2,000	1,443	3,443	2%
69	2,327	1,657	3,984	3%
70	3,905	2,742	6,647	4%
71	4,784	3,071	7,855	5%
72	3,074	2,110	5,184	3%
73	1,281	1,093	2,374	2%
74	1,679	1,346	3,025	2%
75	3,065	2,338	5,403	3%
76	3,866	2,920	6,786	4%
77	2,932	2,176	5,108	3%
78	706	577	1,283	1%
79	1,191	959	2,150	1%
80	2,247	1,672	3,919	3%
81	2,611	1,903	4,514	3%
82	2,376	1,680	4,056	3%
83	426	261	687	0%
84	760	415	1,175	1%
85	1,315	755	2,070	1%
86	1,504	903	2,407	2%
87	1,182	776	1,958	1%
88	241	114	355	0%
89	277	133	410	0%
90	445	244	689	0%
91	419	222	641	0%
92	289	155	444	0%
93	53	20	73	0%
94	64	27	91	0%
95	57	14	71	0%
96	43	23	66	0%
97	6	-	6	0%
98	2	1	3	0%
99	3	5	8	0%
100	4	2	6	0%
101	8	1	9	0%
Total	93,622	61,012	154,634	100%

CalPERS LTC Program
Distributions of Business Inforce as of 6/30/2011

By Plan Type

<u>Plan Type</u>	<u>Count</u>	<u>Percent</u>
Partnership (Comprehensive)	6,090	4%
Comprehensive	116,772	76%
Facilities Only	31,772	21%
Total	154,634	100%

By Inflation

<u>Inflation</u>	<u>Count</u>	<u>Percent</u>
No Inflation	43,524	28%
Inflation	111,110	72%
Total	154,634	100%

By Marital Status at time of Issue

<u>Marital Status</u>	<u>Gender</u>	<u>Count</u>	<u>Marital Status</u>		
Married	F	56,923	Married	105,294	68%
Married	M	48,371	Other	49,340	32%
Divorced	F	12,861	Total	154,634	100%
Divorced	M	3,618			
Single	F	10,788			
Single	M	5,260			
Widowed	F	12,414			
Widowed	M	2,895			
Unknown	F	629			
Unknown	M	862			
Separated	F	7			
Separated	M	6			
Total		154,634			

By Premium Mode

<u>Premium Mode</u>	<u>Count</u>	
Monthly	117,905	76%
Quarterly	28,379	18%
Semi-Annually	4,880	3%
Annually	3,470	2%
Total	154,634	100%

By Underwriting Type

<u>Underwriting Type</u>	<u>Count</u>	
LF	96,709	63%
MGI	31,573	20%
SF	26,352	17%
Total	154,634	100%

By Product Series

<u>Product Series</u>	<u>Count</u>	
LTC 1	129,070	83%
LTC 2	9,071	6%
LTC 3	16,493	11%
Total	154,634	100%

Attachment G

Attachment G

Base Case

California Public Employees Retirement System

Summary of Projected Values

All Plans

								<u>Annual</u>	
								Discount Rate Years 1 - 10:	6.25%
								Discount Rate Years 11+:	7.60%
LTC Program Funded Ratio:									
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):									
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):									
Fund Balance @ End of Projection:									
Totals - 7/2011 thru 6/2071:									
As a % of Premiums:									
Totals - Present Values:									
As a % of PV(Premiums):									
Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,214,995	86,518,260	3,387,165	8,981,681	64,327,889	102,145,483	3,276,784,822
1-12	2012	147,709	319,059,141	189,064,343	6,895,002	18,148,098	104,951,698	219,154,237	3,443,258,194
1-12	2013	143,043	310,506,451	213,621,901	7,167,348	18,746,908	70,970,294	238,408,258	3,767,364,129
1-12	2014	138,324	301,716,982	235,804,779	7,218,240	19,383,443	39,310,519	256,670,452	4,076,742,681
1-12	2015	133,569	292,812,777	252,377,141	6,975,166	20,045,063	13,415,407	274,366,302	4,372,723,653
1-12	2016	128,772	283,662,504	271,464,517	6,685,429	20,730,126	(15,217,569)	291,470,022	4,660,505,363
1-12	2017	123,912	274,128,945	291,313,450	6,346,259	21,274,336	(44,805,099)	307,796,860	4,936,757,816
1-12	2018	118,985	264,230,361	309,404,757	5,893,779	21,763,059	(72,831,233)	323,339,651	5,199,749,577
1-12	2019	114,031	254,007,602	326,727,442	5,344,120	22,208,604	(100,272,564)	338,139,143	5,450,257,995
1-12	2020	109,076	243,443,552	343,459,398	4,812,904	22,630,437	(127,459,187)	352,116,421	5,688,124,575
1-12	2021	104,128	232,599,901	357,608,875	4,330,873	23,046,183	(152,386,030)	404,448,471	5,912,781,808
1-12	2022	99,172	221,541,618	373,880,074	3,887,360	23,412,613	(179,638,430)	462,466,712	6,164,844,249
1-12	2023	94,202	210,311,139	393,964,804	3,405,930	23,700,092	(210,759,687)	482,785,786	6,447,672,531
1-12	2024	89,249	199,001,068	414,108,559	2,918,933	23,905,755	(241,932,180)	502,265,290	6,719,698,630
1-12	2025	84,345	187,658,130	435,644,456	2,507,685	24,047,771	(274,541,782)	520,822,194	6,980,031,740
1-12	2026	79,502	176,331,779	459,722,190	2,180,288	24,141,270	(309,711,968)	538,211,128	7,226,312,152
1-12	2027	74,710	165,080,604	483,751,478	1,906,328	24,152,780	(344,729,982)	554,228,751	7,454,811,312
1-12	2028	69,968	153,956,756	504,626,657	1,631,506	24,045,434	(376,346,841)	568,915,249	7,664,310,081
1-12	2029	65,294	142,987,659	521,966,548	1,364,822	23,812,655	(404,156,366)	582,462,629	7,856,878,488
1-12	2030	60,718	132,203,311	539,004,799	1,135,750	23,470,506	(431,407,744)	594,973,543	8,035,184,752
1-12	2031	56,254	121,641,574	558,280,229	951,176	23,058,064	(460,647,895)	606,305,326	8,198,750,550
1-12	2032	51,885	111,327,765	577,770,778	815,223	22,660,699	(489,918,935)	616,227,053	8,344,407,981
1-12	2033	47,618	101,314,984	591,395,682	685,794	22,142,029	(512,908,521)	624,901,005	8,470,716,099
1-12	2034	43,471	91,646,420	599,727,318	556,720	21,476,888	(530,114,506)	632,711,914	8,582,708,583
1-12	2035	39,474	82,340,290	606,614,417	435,286	20,682,434	(545,391,847)	639,912,205	8,685,305,991
1-12	2036	35,657	73,479,687	614,058,683	337,397	19,792,076	(560,708,468)	646,498,471	8,779,826,349
1-12	2037	32,030	65,124,492	618,983,471	268,664	18,825,823	(572,953,466)	652,506,608	8,865,616,351
1-12	2038	28,595	57,322,422	615,518,913	214,154	17,781,528	(576,192,173)	658,344,433	8,945,169,493
1-12	2039	25,365	50,086,087	603,959,865	165,968	16,651,118	(570,690,864)	664,731,524	9,027,321,753
1-12	2040	22,364	43,432,755	589,474,789	123,600	15,462,962	(561,628,596)	672,192,687	9,121,362,413
1-12	2041	19,607	37,389,850	574,966,945	89,744	14,265,872	(551,932,712)	680,940,666	9,231,926,503
1-12	2042	17,091	31,962,611	557,053,936	65,926	13,093,630	(538,250,881)	691,207,641	9,360,934,457
1-12	2043	14,806	27,134,548	531,609,781	50,599	11,943,747	(516,469,579)	697,582,502	9,513,891,218
1-12	2044	12,745	22,874,351	500,375,134	38,684	10,805,046	(488,344,513)	718,819,416	9,701,004,140
1-12	2045	10,905	19,145,498	468,334,699	29,746	9,693,356	(458,912,303)	737,434,194	9,931,479,044
1-12	2046	9,279	15,914,975	438,114,684	22,303	8,636,619	(430,858,631)	759,657,017	10,210,000,935
1-12	2047	7,851	13,138,654	408,476,443	16,273	7,654,212	(403,008,274)	785,679,064	10,538,799,321
1-12	2048	6,605	10,774,947	376,289,127	11,797	6,753,998	(372,279,974)	815,886,389	10,921,470,111
1-12	2049	5,521	8,777,852	342,413,795	8,319	5,923,852	(339,568,113)	850,817,968	11,365,076,526
1-12	2050	4,584	7,098,066	309,513,714	5,547	5,157,676	(307,578,872)	890,879,863	11,876,326,380
1-12	2051	3,782	5,695,635	279,384,459	3,549	4,452,864	(278,145,237)	936,331,028	12,459,627,372
1-12	2052	3,100	4,533,153	252,715,908	2,359	3,814,271	(251,999,384)	987,350,815	13,117,813,163
1-12	2053	2,524	3,577,784	226,780,559	1,467	3,249,204	(226,453,446)	1,044,189,909	13,853,164,594
1-12	2054	2,042	2,800,123	200,575,200	833	2,749,026	(200,524,936)	1,044,189,909	14,670,901,057
1-12	2055	1,639	2,171,711	175,529,878	385	2,308,856	(175,667,409)	1,177,166,469	15,577,684,841
1-12	2056	1,306	1,667,816	152,646,166	89	1,925,041	(152,903,480)	1,254,147,902	16,579,183,902
1-12	2057	1,033	1,267,848	132,205,250	-	1,592,690	(132,530,092)	1,338,621,016	17,680,428,324
1-12	2058	811	953,971	113,791,169	-	1,307,841	(114,145,038)	1,430,983,826	18,886,519,248
1-12	2059	633	710,557	96,592,605	-	1,065,999	(96,948,047)	1,531,714,628	20,203,358,035
1-12	2060	491	528,268	81,007,025	-	861,999	(81,340,757)	1,641,354,517	21,638,124,616
1-12	2061	378	393,029	67,534,843	-	692,124	(67,833,938)	1,760,435,473	23,198,138,376
1-12	2062	289	290,229	56,060,128	-	552,562	(56,322,462)	1,889,516,725	24,890,739,910
1-12	2063	220	212,735	46,332,471	-	438,570	(46,558,306)	2,029,216,000	26,723,934,173
1-12	2064	166	154,715	38,160,569	-	345,995	(38,351,849)	2,180,215,031	28,706,591,867
1-12	2065	125	111,585	31,339,195	-	271,479	(31,499,089)	2,343,261,515	30,848,455,049
1-12	2066	93	79,863	25,632,598	-	211,790	(25,764,525)	2,519,176,995	33,160,217,475
1-12	2067	69	56,654	20,924,166	-	164,111	(21,031,622)	2,708,859,780	35,653,629,946
1-12	2068	51	39,726	16,942,992	-	126,538	(17,029,804)	2,913,288,641	38,341,458,104
1-12	2069	37	27,430	13,560,292	-	96,768	(13,629,631)	3,133,535,539	41,237,716,941
1-12	2070	27	18,592	10,752,486	-	73,166	(10,807,059)	3,370,757,766	44,357,622,849
1-6	2071	23	6,742	4,484,883	-	29,652	(4,507,793)	1,779,980,632	47,717,573,555
									49,493,046,394

Attachment H

Attachment H
No Credibility

California Public Employees Retirement System
Summary of Projected Values
All Plans

LTC Program Funded Ratio:	136.31%								Discount Rate Years 1 - 10:	Annual 6.25%
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	872,921,884	= Standard Program Definition							Discount Rate Years 11+:	7.60%
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	28.77%	= Standard Program Definition								
Fund Balance @ End of Projection:	61,827,139,214	100.00%			100.00%					
Totals - 7/2011 thru 6/2071:	5,557,483,378		19,085,254,327	90,896,489	737,393,268	(14,356,060,706)	72,906,415,098			
As a % of Premiums:	100.00%		343.42%	1.64%	13.27%	-258.32%	1311.86%			

Totals - Present Values:	3,033,842,522	5,096,847,331	58,838,801	282,019,328	(2,403,862,937)	7,609,809,544
As a % of PV(Premiums):	100.00%	168.00%	1.94%	9.30%	-79.23%	250.83%

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,222,182	86,410,032	3,387,165	8,579,537	64,845,448	102,152,215	3,276,784,822
1-12	2012	147,709	319,189,663	186,987,722	6,895,002	17,350,424	107,956,516	219,266,516	3,443,782,485
1-12	2013	143,043	310,759,417	208,975,591	7,167,348	17,955,385	76,661,093	238,798,488	3,771,005,517
1-12	2014	138,324	302,055,988	228,736,242	7,218,240	18,596,075	47,505,432	257,520,832	4,086,465,098
1-12	2015	133,569	293,220,465	243,096,597	6,975,166	19,261,479	23,887,224	275,852,665	4,391,491,361
1-12	2016	128,772	284,126,325	260,085,055	6,685,429	19,956,799	(2,600,959)	293,771,586	4,691,231,251
1-12	2017	123,912	274,631,695	278,144,823	6,346,259	20,523,926	(30,383,313)	311,088,904	4,982,401,878
1-12	2018	118,985	264,753,838	294,859,895	5,893,779	21,040,002	(57,039,838)	327,783,717	5,263,107,470
1-12	2019	114,031	254,536,312	311,233,931	5,344,120	21,519,359	(83,561,099)	343,878,679	5,533,851,348
1-12	2020	109,076	243,972,258	327,234,327	4,812,904	21,978,120	(110,053,094)	359,281,347	5,794,168,929
1-12	2021	104,128	233,127,063	340,762,358	4,330,873	22,433,990	(134,400,158)	414,135,257	6,043,397,182
1-12	2022	99,172	222,061,924	356,614,401	3,887,360	22,850,070	(161,289,908)	475,186,553	6,323,132,280
1-12	2023	94,202	210,814,629	376,638,458	3,405,930	23,189,585	(192,419,344)	497,869,073	6,637,028,926
1-12	2024	89,249	199,479,924	397,088,141	2,918,933	23,441,886	(223,969,037)	519,876,555	6,942,478,654
1-12	2025	84,345	188,113,644	419,042,690	2,507,685	23,623,198	(257,059,929)	541,118,861	7,238,386,173
1-12	2026	79,502	176,768,305	443,485,224	2,180,288	23,749,818	(292,647,024)	561,362,807	7,522,445,104
1-12	2027	74,710	165,499,332	467,870,535	1,906,328	23,794,522	(328,072,053)	580,421,772	7,791,160,887
1-12	2028	69,968	154,353,861	489,216,828	1,631,506	23,719,375	(360,213,849)	598,346,159	8,043,510,606
1-12	2029	65,294	143,358,849	507,173,393	1,364,822	23,516,560	(388,695,926)	615,331,739	8,281,642,916
1-12	2030	60,718	132,551,284	524,775,593	1,135,750	23,197,673	(416,557,732)	631,491,692	8,508,278,730
1-12	2031	56,254	121,972,078	544,478,131	951,176	22,803,185	(446,260,415)	646,709,170	8,723,212,691
1-12	2032	51,885	111,644,662	564,304,617	815,223	22,424,388	(475,899,566)	660,780,775	8,923,661,446
1-12	2033	47,618	101,617,081	578,306,842	685,794	21,928,895	(499,304,450)	673,891,295	9,108,542,655
1-12	2034	43,471	91,930,669	587,154,512	556,720	21,289,180	(517,069,743)	686,439,153	9,283,129,500
1-12	2035	39,474	82,607,714	594,583,104	435,286	20,517,608	(532,928,285)	698,691,921	9,452,498,910
1-12	2036	35,657	73,732,100	602,546,639	337,397	19,648,225	(548,800,162)	710,671,691	9,618,262,546
1-12	2037	32,030	65,361,830	608,015,524	268,664	18,706,980	(561,629,337)	722,440,362	9,780,134,075
1-12	2038	28,595	57,542,227	605,173,938	214,154	17,689,166	(565,535,031)	734,429,231	9,940,945,100
1-12	2039	25,365	50,286,048	594,366,144	165,968	16,580,585	(560,826,649)	747,379,594	10,109,839,300
1-12	2040	22,364	43,612,711	580,679,138	123,600	15,408,109	(552,598,135)	761,840,221	10,296,392,245
1-12	2041	19,607	37,550,351	566,969,682	89,744	14,221,549	(543,730,624)	778,056,460	10,505,634,330
1-12	2042	17,091	32,104,291	549,811,430	65,926	13,058,574	(530,831,640)	796,297,694	10,739,960,166
1-12	2043	14,806	27,257,710	525,027,117	50,599	11,917,886	(509,737,893)	817,196,704	11,005,426,221
1-12	2044	12,745	22,979,496	494,411,837	38,684	10,789,184	(482,260,209)	841,555,502	11,312,885,033
1-12	2045	10,905	19,233,855	463,000,990	29,746	9,687,218	(453,484,098)	869,935,965	11,672,180,325
1-12	2046	9,279	15,988,498	433,413,140	22,303	8,634,610	(426,081,555)	902,616,820	12,088,632,192
1-12	2047	7,851	13,200,038	404,349,414	16,273	7,652,804	(398,818,453)	939,844,180	12,565,167,457
1-12	2048	6,605	10,826,778	372,594,520	11,797	6,752,000	(368,531,538)	982,068,832	13,106,193,184
1-12	2049	5,521	8,821,816	339,067,944	8,319	5,921,194	(336,175,641)	1,029,901,500	13,719,730,478
1-12	2050	4,584	7,135,292	306,501,484	5,547	5,155,019	(304,526,757)	1,083,818,720	14,413,456,337
1-12	2051	3,782	5,727,213	276,700,331	3,549	4,449,922	(275,426,588)	1,144,152,585	15,192,748,299
1-12	2052	3,100	4,560,225	250,349,875	2,359	3,810,876	(249,602,885)	1,211,161,185	16,061,474,296
1-12	2053	2,524	3,601,207	224,678,818	1,467	3,245,763	(224,324,841)	1,285,181,464	17,023,032,596
1-12	2054	2,042	2,820,393	198,669,775	833	2,746,100	(198,596,314)	1,366,769,479	18,083,889,218
1-12	2055	1,639	2,189,152	173,786,390	385	2,306,855	(173,904,479)	1,456,486,472	19,252,062,383
1-12	2056	1,306	1,682,541	151,062,948	89	1,924,503	(151,304,999)	1,554,824,053	20,534,644,377
1-12	2057	1,033	1,279,948	130,790,306	-	1,593,343	(131,103,701)	1,662,263,607	21,938,163,431
1-12	2058	811	963,621	112,546,929	-	1,309,306	(112,892,615)	1,779,325,096	23,469,323,338
1-12	2059	633	718,030	95,502,443	-	1,068,036	(95,852,449)	1,906,618,980	25,135,755,820
1-12	2060	491	533,902	80,062,220	-	864,343	(80,392,660)	2,044,829,276	26,946,522,352
1-12	2061	378	397,128	66,738,166	-	694,435	(67,035,473)	2,194,640,781	28,910,958,967
1-12	2062	289	293,100	55,408,899	-	554,513	(55,670,312)	2,356,776,766	31,038,564,275
1-12	2063	220	214,703	45,809,019	-	439,974	(46,034,290)	2,532,032,410	33,339,670,729
1-12	2064	166	156,072	37,742,311	-	346,809	(37,933,048)	2,721,281,218	35,825,668,849
1-12	2065	125	112,549	31,003,475	-	271,828	(31,162,754)	2,925,477,324	38,509,017,020
1-12	2066	93	80,576	25,357,946	-	211,833	(25,489,204)	3,145,664,349	41,403,331,589
1-12	2067	69	57,203	20,694,802	-	164,040	(20,801,639)	3,382,979,311	44,523,506,735
1-12	2068	51	40,158	16,745,502	-	126,503	(16,831,846)	3,638,657,453	47,885,684,407
1-12	2069	37	27,770	13,388,591	-	96,883	(13,457,704)	3,914,046,433	51,507,510,014
1-12	2070	27	18,846	10,606,188	-	73,451	(10,660,794)	4,210,599,593	55,408,098,743
1-6	2071	23	6,839	4,421,409	-	29,813	(4,444,383)	2,223,546,054	59,608,037,543
									61,827,139,214

Attachment I

Attachment I
Full Credibility

California Public Employees Retirement System
Summary of Projected Values
All Plans

										<u>Annual</u>
									Discount Rate Years 1 - 10:	6.25%
									Discount Rate Years 11+:	7.60%
LTC Program Funded Ratio:	122.23%									
Surplus/(Deficit) \$ = PV (Fund Balance + Earnings):	596,003,539	= Standard Program Definition								
Surplus/(Deficit) \$ as a Percentage of PV(Premiums):	19.70%	= Standard Program Definition								
Fund Balance @ End of Projection:	41,989,694,141	100.00%				100.00%				
Totals - 7/2011 thru 6/2071:	5,538,018,485	19,860,795,830	90,896,489	759,961,527	(15,173,635,361)	53,886,544,680				
As a % of Premiums:	100.00%	358.63%	1.64%	13.72%	-273.99%	973.03%				
Totals - Present Values:	3,025,734,373	5,353,862,378	58,838,801	293,814,477	(2,680,781,282)	6,666,372,985				
As a % of PV(Premiums):	100.00%	176.94%	1.94%	9.71%	-88.60%	220.32%				

Months	Year	Lives	Total Premiums	LTC Paid Claims	RoP Claims	Total Expenses	Earnings	Investment Earnings	Fund Balance
7-12	2011	152,290	163,211,068	86,567,015	3,387,165	9,135,259	64,121,629	102,142,882	3,276,784,822
1-12	2012	147,709	318,986,122	190,028,193	6,895,002	18,456,039	103,606,888	219,106,006	3,443,049,333
1-12	2013	143,043	310,364,760	215,775,349	7,167,348	19,059,897	68,362,165	238,233,812	3,765,762,226
1-12	2014	138,324	301,527,863	239,071,937	7,218,240	19,703,215	35,534,471	256,284,803	4,072,358,204
1-12	2015	133,569	292,585,956	256,712,140	6,975,166	20,376,942	8,521,708	273,686,320	4,364,177,478
1-12	2016	128,772	283,403,822	276,889,339	6,685,429	21,075,473	(21,246,420)	290,406,307	4,646,385,506
1-12	2017	123,912	273,846,615	297,737,137	6,346,259	21,626,042	(51,862,823)	306,257,180	4,915,545,393
1-12	2018	118,985	263,934,099	316,659,877	5,893,779	22,115,181	(80,734,737)	321,235,355	5,169,939,749
1-12	2019	114,031	253,706,459	334,620,084	5,344,120	22,559,036	(108,816,782)	335,388,537	5,410,440,367
1-12	2020	109,076	243,139,891	351,937,924	4,812,904	22,981,734	(136,592,671)	348,641,731	5,637,012,122
1-12	2021	104,128	232,293,594	366,675,597	4,330,873	23,399,938	(162,112,814)	399,690,848	5,849,061,183
1-12	2022	99,172	221,234,678	383,465,381	3,887,360	23,762,341	(189,880,404)	456,140,581	6,086,639,216
1-12	2023	94,202	210,009,140	403,881,751	3,405,930	24,039,001	(221,317,543)	475,187,116	6,352,899,393
1-12	2024	89,249	198,710,183	424,136,577	2,918,933	24,233,389	(252,578,716)	493,282,179	6,606,768,967
1-12	2025	84,345	187,378,338	445,746,328	2,507,685	24,368,263	(285,243,938)	510,345,510	6,847,472,429
1-12	2026	79,502	176,060,560	469,960,393	2,180,288	24,458,873	(320,538,993)	526,120,600	7,072,574,001
1-12	2027	74,710	164,816,591	494,137,306	1,906,328	24,465,405	(355,692,447)	540,391,176	7,278,155,608
1-12	2028	69,968	153,702,198	515,045,921	1,631,506	24,347,987	(387,323,216)	553,191,331	7,462,854,336
1-12	2029	65,294	142,745,906	532,270,549	1,364,822	24,104,125	(414,993,590)	564,713,980	7,628,722,451
1-12	2030	60,718	131,973,101	549,215,366	1,135,750	23,753,174	(442,131,190)	575,057,321	7,778,442,842
1-12	2031	56,254	121,419,924	568,492,761	951,176	23,335,606	(471,359,619)	584,061,582	7,911,368,973
1-12	2032	51,885	111,112,029	588,049,524	815,223	22,933,204	(500,685,922)	591,476,844	8,024,070,936
1-12	2033	47,618	101,105,787	601,677,475	685,794	22,403,073	(523,660,555)	597,451,260	8,114,861,858
1-12	2034	43,471	91,446,527	609,874,145	556,720	21,722,587	(540,706,926)	602,364,018	8,188,652,563
1-12	2035	39,474	82,149,485	616,612,403	435,286	20,910,461	(555,808,665)	606,459,709	8,250,309,655
1-12	2036	35,657	73,297,395	623,911,317	337,397	20,003,446	(570,954,765)	609,718,305	8,300,960,699
1-12	2037	32,030	64,950,270	628,674,250	268,664	19,020,448	(583,013,092)	612,159,218	8,339,724,238
1-12	2038	28,595	57,157,642	624,927,575	214,154	17,958,468	(585,942,555)	614,176,793	8,368,870,364
1-12	2039	25,365	49,932,321	612,954,369	165,968	16,812,536	(580,000,552)	616,482,040	8,397,104,603
1-12	2040	22,364	43,289,971	598,044,791	123,600	15,604,645	(570,483,065)	619,585,936	8,433,586,091
1-12	2041	19,607	37,259,068	583,068,473	89,744	14,387,705	(560,286,856)	623,681,307	8,482,688,962
1-12	2042	17,091	31,844,208	564,646,716	65,926	13,200,347	(546,068,781)	628,981,686	8,546,083,413
1-12	2043	14,806	27,028,569	538,668,112	50,599	12,039,370	(523,729,513)	636,054,110	8,628,996,318
1-12	2044	12,745	22,780,566	506,905,780	38,684	10,893,354	(495,057,253)	645,627,881	8,741,320,955
1-12	2045	10,905	19,063,340	474,393,699	29,746	9,769,430	(465,129,536)	658,188,850	8,891,891,583
1-12	2046	9,279	15,844,335	443,682,959	22,303	8,699,698	(436,560,624)	673,935,667	9,084,950,897
1-12	2047	7,851	13,078,510	413,556,358	16,273	7,709,451	(408,203,571)	693,028,797	9,322,325,940
1-12	2048	6,605	10,723,809	380,921,982	11,797	6,804,681	(377,014,651)	715,817,546	9,607,151,165
1-12	2049	5,521	8,734,325	346,650,440	8,319	5,972,060	(343,896,493)	742,799,623	9,945,954,060
1-12	2050	4,584	7,060,985	313,391,816	5,547	5,199,423	(311,535,801)	774,337,239	10,344,857,190
1-12	2051	3,782	5,664,313	282,895,372	3,549	4,486,991	(281,721,599)	810,644,653	10,807,658,628
1-12	2052	3,100	4,506,647	255,867,917	2,359	3,843,525	(255,207,153)	851,854,496	11,336,581,682
1-12	2053	2,524	3,555,075	229,607,103	1,467	3,275,647	(229,329,142)	898,164,840	11,933,229,024
1-12	2054	2,042	2,780,507	203,123,397	833	2,774,323	(203,118,046)	949,978,128	12,602,064,722
1-12	2055	1,639	2,154,710	177,841,152	385	2,331,577	(178,018,405)	1,007,690,954	13,348,924,804
1-12	2056	1,306	1,653,203	154,730,934	89	1,943,299	(155,021,119)	1,071,622,335	14,178,597,353
1-12	2057	1,033	1,255,521	134,062,271	-	1,607,215	(134,413,965)	1,142,071,365	15,095,198,569
1-12	2058	811	943,750	115,428,177	-	1,319,978	(115,804,405)	1,219,361,756	16,102,855,968
1-12	2059	633	702,166	98,036,153	-	1,076,376	(98,410,363)	1,303,890,772	17,206,413,319
1-12	2060	491	521,427	82,280,619	-	870,743	(82,629,935)	1,396,111,540	18,411,893,728
1-12	2061	378	387,595	68,648,884	-	698,990	(68,960,279)	1,496,462,187	19,725,375,333
1-12	2062	289	286,089	57,013,431	-	557,492	(57,284,834)	1,605,402,010	21,152,877,242
1-12	2063	220	209,688	47,127,674	-	442,066	(47,360,052)	1,723,441,502	22,700,994,418
1-12	2064	166	152,530	38,807,515	-	348,630	(39,003,614)	1,851,146,456	24,377,075,867
1-12	2065	125	110,027	31,858,279	-	273,676	(32,021,928)	1,989,139,188	26,189,218,709
1-12	2066	93	78,727	26,048,581	-	213,678	(26,183,531)	2,138,105,688	28,146,335,969
1-12	2067	69	55,799	21,259,427	-	165,745	(21,369,373)	2,298,798,391	30,258,258,126
1-12	2068	51	39,062	17,217,243	-	127,988	(17,306,169)	2,472,039,338	32,535,687,145
1-12	2069	37	26,901	13,788,661	-	98,063	(13,859,824)	2,658,732,097	34,990,420,313
1-12	2070	27	18,171	10,944,833	-	74,175	(11,000,837)	2,859,853,181	37,635,292,587
1-6	2071	23	6,568	4,569,095	-	30,042	(4,592,570)	1,510,141,780	40,484,144,931
									41,989,694,141